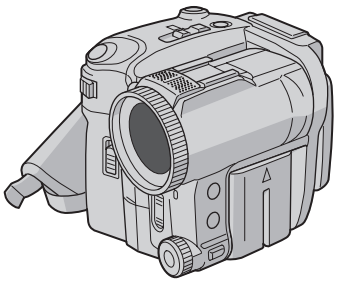
JVC

# SERVICE MANUAL

## DIGITAL VIDEO CAMERA

# GR-X5US



Mini DV NTSC

SD

MultiMediaCard

GR-X5US[M5D727]

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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**No.YF098**
**2005/6**

# SPECIFICATION

**■Camcorder**

| | | | |
|---|---|---|---|
| For General | Power supply | | DC 11.0 V(Using AC Adapter)<br>DC 7.2 V (Using battery pack) |
| | Power consumption | | Approx. 4.8 W (LCD backlight off)<br>Approx. 5.8 W (LCD backlight off)<br>Approx. 6.5 W (Maximum; when charging the battery pack) |
| | Dimensions (W × H × D) | | 88 mm × 89 mm × 93 mm (3-1/2" x 3-9/16" × 3-11/16")<br>(with the LCD monitor closed) |
| | Weight | | Approx. 510g(1.2 lbs)<br>(without battery, cassette, memory card, lens hood and lens cap)<br>Approx. 590 g (1.3 lbs)<br>(incl. battery, cassette, memory card, lens hood and lens cap) |
| | Operating temperature | | 0°C to 40°C (32°F to 104°F) |
| | Operating humidity | | 35% to 80% |
| | Storage temperature | | -20°C to 50°C (-4°F to 122°F) |
| | Pickup | | 1/4.5" (1,330,000 pixels) CCD × 3 (3 CCD) |
| | Lens | | Video: F 1.8 to 2.4, f = 3.2 mm to 32 mm, 10:1 power zoom lens<br>Still: F 1.9 to 2.4, f = 4 mm to 32 mm, 8:1 power zoom lens |
| | Filter diameter | | Ø37 mm |
| | LCD monitor | | 2.5" diagonally measured, LCD panel/TFT active matrix system |
| | Speaker | | Monaural |
| | Flash | | Within 2 m (6.5 ft) (recommended shooting distance) |
| For Digital Video Camera | Format | | DV format (SD mode) |
| | Signal format | | NTSC standard |
| | Recording/Playback format | Video | Digital component recording |
| | | Audio | PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit) |
| | Cassette | | Mini DV cassette |
| | Tape speed | | SP: 18.8 mm/s, LP: 12.5 mm/s |
| | Maximum recording time (using 80 min. cassette) | | SP: 80 min., LP: 120 min. |
| For Digital Still Camera | Storage media | | SD Memory Card/MultiMediaCard |
| | Compression system | | JPEG (compatible) |
| | Image size | | 5 modes (2560 × 1920 / 2048 × 1536 / 1600 × 1200 / 1280 × 960 / 640 × 480 pixels) |
| | Picture quality | | 2 modes (FINE/STANDARD) |
| For Connectors | S | S-Video input | Y: 0.8 V to 1.2 V (p-p), 75Ω , analog<br>C: 0.2 V to 0.4 V (p-p), 75Ω , analog |
| | | S-Video output | Y: 1.0 V (p-p), 75Ω, analog<br>C: 0.29 V (p-p), 75Ω, analog |
| | AV | Video input | 0.8 V to 1.2 V (p-p), 75Ω, analog |
| | | Video output | 1.0 V (p-p), 75Ω, analog |
| | | Audio input | 300 mV (rms), 50 kΩ , analog, stereo |
| | | Audio output | 300 mV (rms), 1 kΩ, analog, stereo |
| | Microphone | input | Ø3.5 mm, stereo |
| | Headphone | output | Ø3.5 mm, stereo |
| | DV | Input/output | 4-pin, IEEE 1394 compliant |
| | USB | | Mini USB-B type, USB 1.1/2.0 (Full speed) compliant |

**■AC Adapter**

| | |
|---|---|
| Power requirement | AC 110 V to 240 V, 50 Hz/60 Hz |
| Output | DC 11 V, 1 A |

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

# SECTION 1
# PRECAUTIONS

## 1.1 SAFTY PRECAUTIONS

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold.However,in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

### 1.1.1 Precautions during Servicing

(1) Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product.When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

(2) Parts identified by the ⚠symbol and shaded ( ) parts are critical for safety.
Replace only with specified part numbers.

**NOTE :**
**Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.**

(3) Fuse replacement caution notice.
Caution for continued protection against fire hazard.
Replace only with same type and rated fuse(s) as specified.

(4) Use specified internal wiring. Note especially:
- Wires covered with PVC tubing
- Double insulated wires
- High voltage leads

(5) Use specified insulating materials for hazardous live parts. Note especially:
- Insulation Tape
- PVC tubing
- Spacers
- Insulation sheets for transistors
- Barrier

(6) When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

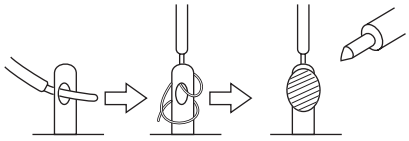


Fig.1-1-1

(7) Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

(8) Check that replaced wires do not contact sharp edged or pointed parts.

(9) When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

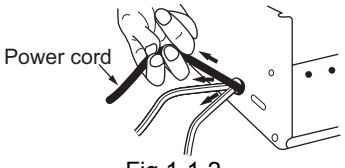



Fig.1-1-2

(10) Also check areas surrounding repaired locations.

(11) Products using cathode ray tubes (CRTs)In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits.Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

(12) Crimp type wire connectorIn such cases as when replacing the power transformer in sets where the connections between the power cord and power trans former primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

- **Connector part number** :E03830-001
- **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
- **Replacement procedure**

a) Remove the old connector by cutting the wires at a point close to the connector.Important : Do not reuse a connector (discard it).

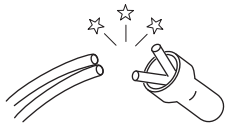



Fig.1-1-3

b) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

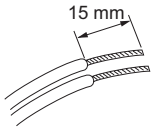



Fig.1-1-4

c) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

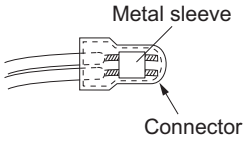



Fig.1-1-5

d) As shown in Fig.1-1-6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

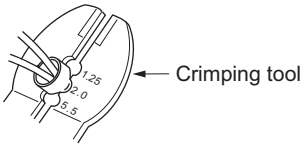



Fig.1-1-6

e) Check the four points noted in Fig.1-1-7.

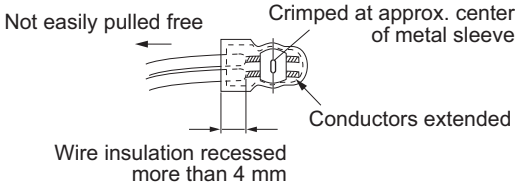

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.1-1-7

### 1.1.2 Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

(1) Insulation resistance test
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).See table 1 below.

(2) Dielectric strength test
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See Fig.1-1-11 below.

(3) Clearance distance
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See Fig.1-1-11 below.

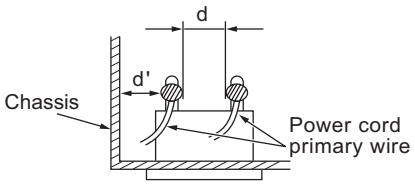


Fig.1-1-8

(4) Leakage current test
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig.1-1-9 and following Fig.1-1-12.

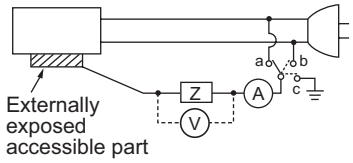
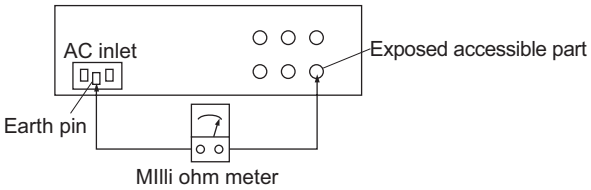


Fig.1-1-9

(5) Grounding (Class 1 model only)
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See Fig.1-1-10 and grounding specifications.




Grounding Specifications

| Region | Grounding Impedance (Z) |
|---|---|
| USA & Canada | Z ≦ 0.1 ohm |
| Europe & Australia | Z ≦ 0.5 ohm |

Fig.1-1-10

| AC Line Voltage | Region | Insulation Resistance (R) | Dielectric Strength | Clearance Distance (d), (d') |
|---|---|---|---|---|
| 100 V | Japan | R≧ 1 MΩ/500 V DC | AC 1 kV 1 minute | d, d' ≧ 3 mm |
| 100 to 240 V | | | AC 1.5 kV 1 minute | d, d' ≧ 4 mm |
| 110 to 130 V | USA & Canada | 1 MΩ ≦R≦ 12 MΩ/500 V DC | AC 1 kV 1 minute | d, d' ≧ 3.2 mm |
| 110 to 130 V<br>200 to 240 V | Europe & Australia | R≧ 10 MΩ/500 V DC | AC 3 kV 1 minute (Class Ⅱ)<br>AC 1.5 kV 1 minute (Class Ⅰ) | d ≧ 4 mm<br>d' ≧ 8 mm (Power cord)<br>d' ≧ 6 mm (Primary wire) |

Fig.1-1-11

| AC Line Voltage | Region | Load Z | Leakage Current (i) | a, b, c |
|---|---|---|---|---|
| 100 V | Japan | 1 kΩ | i ≦ 1 mA rms | Exposed accessible parts |
| 110 to 130 V | USA & Canada | 0.15 μF, 1.5 kΩ | i ≦ 0.5 mA rms | Exposed accessible parts |
| 110 to 130 V<br>220 to 240 V | Europe & Australia | 2 kΩ | i ≦ 0.7 mA peak<br>i ≦ 2 mA dc | Antenna earth terminals |
| | | 50 kΩ | i ≦ 0.7 mA peak<br>i ≦ 2 mA dc | Other terminals |

Fig.1-1-12

**NOTE :**
These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

# SECTION 2
# SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

# SECTION 3
# DISASSEMBLY

## 3.1 BEFORE ASSEMBLY AND DISASSEMBLY

### 3.1.1 Precautions

- Be sure to disconnect the power supply unit prior to mounting and soldering of parts.
- Prior to removing a component part that needs to disconnect its connector(s) and its screw(s), first disconnect the wire(s) from the connector(s), and then remove the screw(s).
- When connecting/disconnecting wires, pay enough attention not to damage the connectors.
- When inserting the flat wire to the connector, pay attention to the direction of the flat wire.
- Be careful in removing the parts to which some spacer or shield is attached for reinforcement or insulation.
- When replacing chip parts (especially IC parts), first remove the solder completely to prevent peeling of the pattern.
- Tighten screws properly during the procedures. Unless otherwise specified, tighten screws at a torque of 0.098N·m (1.0kgf·cm). However, as this is a required value at the time of production, use the value as a measuring stick when proceeding repair services. (See "SERVICE NOTE" as for tightening torque.)

### 3.1.2 Destination of connectors

*Two kinds of double-arrows in connection tables respectively show kinds of connector/wires.*

⇔ : Flat wire ↔ : Wire ⬌ : Board to board (B-B)
: The connector of the side to remove

| CONN. No. | CONNECTOR | | | | | PIN No. |
|---|---|---|---|---|---|---|
| CN2a | MAIN | CN101 | ⇔ | MONI BW | CN761 | 40 |
| CN2b | MAIN | CN103 | ↔ | MINI BW | CN762 | 10 |

### 3.1.3 Disconnection of connectors (Wires)

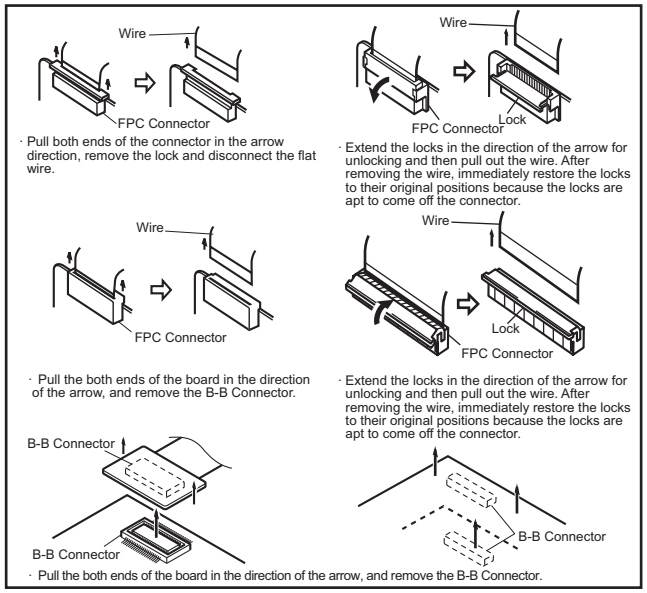

Wire
FPC Connector
· Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.
Wire
FPC Connector
Lock
· Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.
Wire
FPC Connector
· Pull the both ends of the board in the direction of the arrow, and remove the B-B Connector.
Wire
Lock
FPC Connector
· Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.
B-B Connector
B-B Connector
B-B Connector
· Pull the both ends of the board in the direction of the arrow, and remove the B-B Connector.

Fig.3-1-1

### 3.1.4 Tools required for disassembly and assembly

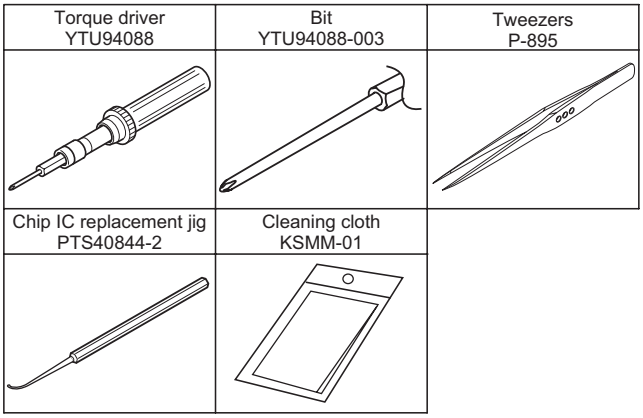



Fig.3-1-2

- **Torque driver**
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- **Bit**
  This bit is slightly longer than those set in conventional torque drivers.
- **Tweezers**
  To be used for removing and installing parts and wires.
- **Chip IC replacement jig**
  To be used for replacement of IC.
- **Cleaning cloth**
  Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

## 3.2 ASSEMBLY AND DISASSEMBLY OF MAIN PARTS

### 3.2.1 Assembly and disassembly

When reassembling, perform the step(s) in reverse order.

| STEP No. | PART | Fig. No. | POINT | NOTE |
|---|---|---|---|---|
| [1] | TOP COVER ASSY | C1 | 4(S1a), 3(L1a),CN1a | - |
| [2] | UPPER ASSY (Inc. VF ASSY, SPEAKER/MONITOR) | C2-1 | (S2a),2(S2b),3(S2c) 2(SD1a), L2,CN2a,b | - |
| [8] | E.VF UNIT(B/W) | C2-2 | 2(S8),L8,CN8a | NOTE 8 |
| (∗1) | (∗2) | (∗3) | (∗4) | (∗5) |

(∗1) Order of steps in Procedure
When reassembling, preform the step(s) in the reverseorder. These numbers are also used as the identification (location) No. of parts Figures.

(∗2) Part to be removed or installed.

(∗3) Fig. No. showing Procedure or Part Location.

(∗4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
S = Screw L = Lock, Release, Hook
SD = Solder CN = Connector

**[Example]**

- 4 (S1a) = Remove 4 S1a screws.
- 3 (L1a) = Disengage 3 L1a hooks.
- 2 (SD1a) = Unsolder 2 SD1a points.
- CN1a = Remove a CN1a connector.

(∗5) Adjustment information for installation.

### 3.2.2 ASSEMBLY/DISASSEMBLY OF CABINET PARTS AND ELECTRICAL PARTS

**●Disassembly procedure**

| STEP No. | PART NAME | Fig. No. | POINT | NOTE |
|---|---|---|---|---|
| [1] | SHOE | FA1 | 2(S1) | NOTE1 |
| [2] | TOP COVER ASSY | FA2 | S2a,3(S2b) | NOTE2a,b,c,d |
| [3] | OP COVER | FA3-1,2 | CN3,2(S3),3(L3),COVER(MIC), MIC ASSY | NOTE3a,b,c |
| [4] | FRONT UNIT ASSY | FA4-1,2 | S4a,4(S4b),CN4a,b | NOTE4a,b,c,d,e |
| [5] | BATT COVER ASSY | FA5-1 | 2(S5a),S5b,5(S5c),CN5 | NOTE5 |
| [6] | REG BOARD ASSY | FA5-2 | 3(S6a),BKT(REG),S6b,BKT(TERMINAL), 4(SD6),BATT.TERMINAL | NOTE6a,b,c |
| [7] | REAR COVER ASSY | FA6-1 | 2(S7a),S7b,COVER(ADJUST),CN7 | NOTE7 |
| [8] | MONITOR ASSY | FA6-2 | 2(S8),L8a,b,CN8a,b | NOTE8a,b,c,d |
| [9] | REAR BOARD ASSY | FA6-3 | S9a,4(S9b),L9a,b | NOTE9 |
| [10] | OP FRAME ASSY | FA7 | 2(S10),CN10a,b | - |
| [11] | MAIN BOARD ASSY | FA8-1 | S11,HEAT SINK(MAIN),HEAT SHEET2 | NOTE11a,b |
| | | FA8-2 | 2(S11),CN11a,b,L11,CN11c,d | NOTE11c |
| [12] | BASE | | S12 | - |
| [13] | C.COVER ASSY | FA9 | 2(S13) | - |
| [14] | PRE/MDA BOARD ASSY | FA10 | 2(S14a),L14a,SHIELD COVER(PR), CN14a,b,c,d,e,f,2(S14b),L14b | NOTE14 |
| [15] | MECHA(B) ASSY | | 3(S15),BKT(MECHA) ASSY | NOTE15 |

**NOTE1:**
During the procedure, leave the COVER removed.

**NOTE2a:**
During the procedure, leave the GRIP BELT removed.

**NOTE2b:**
When removing the screw No.6, leave the C.COVER open.

**NOTE2c:**
When attaching, be sure to adjust the positions of the SLIDE SW and the KNOB(MEMORY).

**NOTE2d:**
During the procedure, be careful not to break the EJECT SW.

**NOTE3a:**
During the procedure, be careful not to break the tabs (L3) and other partsBe careful in handling this part as it is fixed with SPACER of strong double sided tape.

**NOTE3b:**
Disassemble this part if needed.

**NOTE3c:**
When attaching, fold the tabs in order; first tab (a) and then tab (b).

**NOTE4a:**
When removing the screw No.12, leave the C.COVER open.

**NOTE4b:**
When removing the screw No.13, leave the JACK COVER (MIC) open.

**NOTE4c:**
During the procedure, be careful not to break the FPC.

**NOTE4d:**
The STROBE BOARD is attached behind the FRONT COVER ASSEMBLY.During the procedure, be careful not to get an electric shock.
Replace the entire STROBE UNIT as it is not a subject of repair service. Do not touch the ADJUSTING VOLUME on the STROBE BOARD on no condition.

**NOTE4e:**
When attaching, be careful not to catch the FPC in between.

**NOTE5:**
When removing the screw No.14, leave the MONITOR COVER open.

**NOTE6a:**
Disassemble this part if needed.

**NOTE6b:**
When attaching, be careful with the position of the BKT(TERMINAL).

**NOTE6c:**
Attach the folding part of the BKT (REG) to the position shown in the illustration.

**NOTE7:**
During the procedure, be careful not to lose any parts.

**NOTE8a:**
During the procedure, be careful not to damage the and the WIRE.
When attaching, fix the FPC and the WIRE to the REAR COVER with double sided tape.

**NOTE8b:**
When attaching, open the MONITOR to 200° avoid any loose wire around the SHAFT, and fix the WIRE with the SPACER.

**NOTE8c:**
When attaching, place the WIRE through the space.

**NOTE8d:**
When attaching, role the WIRE around the HINGE SHAFT for one round.

**NOTE9:**
During the procedure, be careful not to damage the MONI SW.

**NOTE11a:**
When attaching, pay attention to the SPACER affix position. Make sure that each corner is firmly fixed.

**NOTE11b:**
When attaching the HEAT SHEET, make sure to fix it within the outline of the IC.

**NOTE11c:**
When attaching, be careful in handling the FPC.

**NOTE14:**
When attaching the SHIELD COVER(PR), be careful not to catch the FPC in between.

**NOTE15:**
Place the FPC (b) and (c) inside the BKT (MECHA) ASSEMBLY.

●**Destination of connectors**

| CN.NO. | CONNECTOR | | | | | PIN NO. |
|---|---|---|---|---|---|---|
| CN3 | MAIN | CN109 | ↔ | MIC | - | 4 |
| CN4a | REG | CN302 | ⇔ | STROBE UNIT | - | 14 |
| CN4b | REG | CN303 | ⇔ | FOCUS UNIT | - | 8 |
| CN5 | REG | CN301 | ⬌ | MAIN | CN103 | 120 |
| CN8 | REAR | CN501 | ⇔ | MAIN | CN104 | 53 |
| CN9a | REAR | CN503 | ⇔ | U/D SW | - | 5 |
| CN9b | REAR | CN502 | ↔ | MONITOR | CN601 | 20 |
| CN11a | MAIN | CN101 | ⬌ | CCD | CN201 | 40 |
| CN11b | MAIN | CN102 | ⇔ | OP BLOCK | - | 33 |
| CN12a | MAIN | CN108 | ⇔ | EJECT/TRIG | CN901 | 12 |
| CN12b | MAIN | CN105 | ⇔ | SD | CN701 | 25 |
| CN12c | PRE/MDA | CN401 | ⇔ | MAIN | CN106 | 40 |
| CN12d | PRE/MDA | CN408 | ⇔ | MAIN | CN107 | 40 |
| CN15a | PRE/MDA | CN406 | ⇔ | SENSOR | - | 16 |
| CN15b | PRE/MDA | CN405 | ⇔ | CAPSTAN MOTOR | - | 18 |
| CN15c | PRE/MDA | CN404 | ⇔ | DRUM MOTOR | - | 11 |
| CN15d | PRE/MDA | CN402 | ⇔ | HEAD | - | 8 |
| CN15e | PRE/MDA | CN407 | ⇔ | ROTARY ENCODER SW | - | 6 |
| CN15f | PRE/MDA | CN403 | ⇔ | LOADING MOTOR | - | 6 |

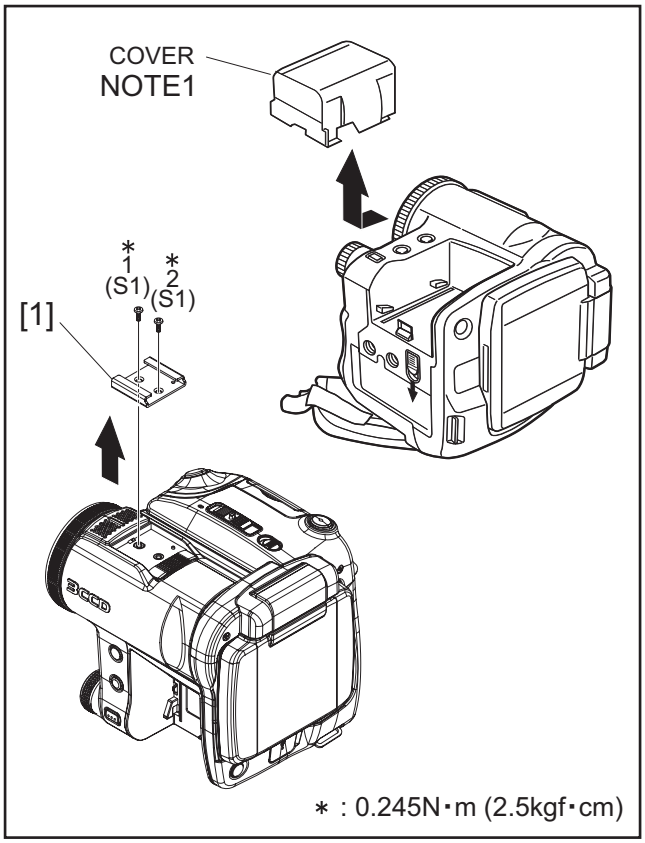



Fig.FA1

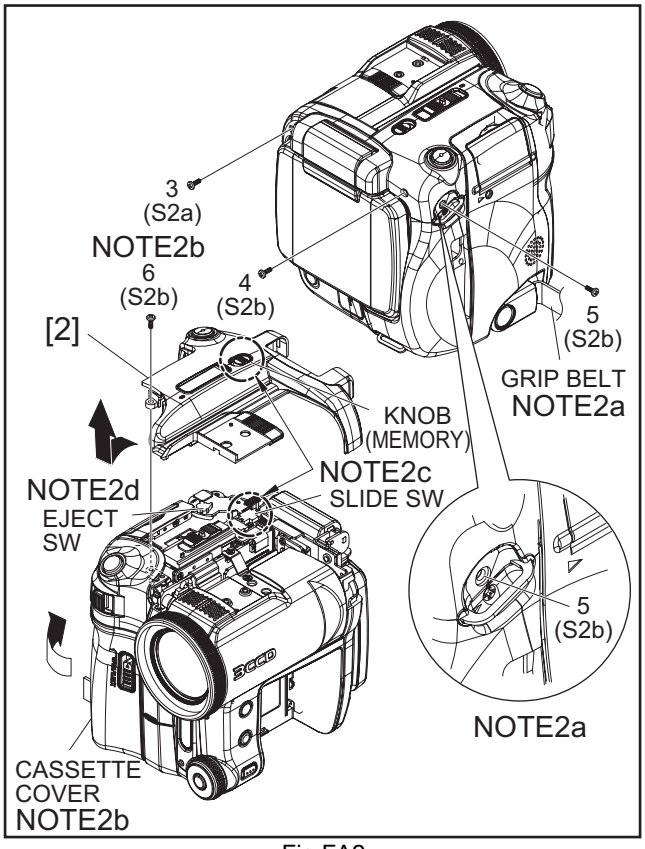



Fig.FA2

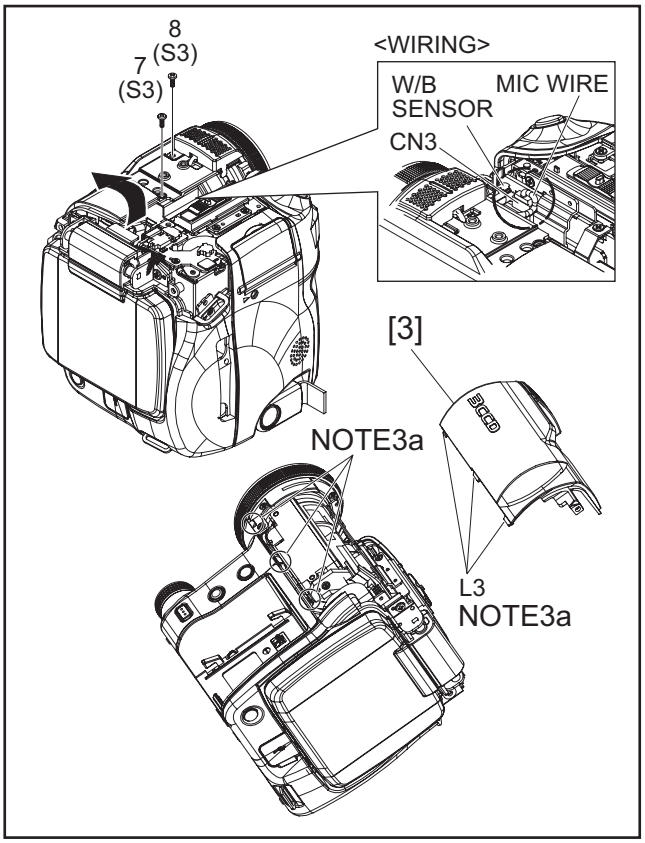



Fig.FA3-1

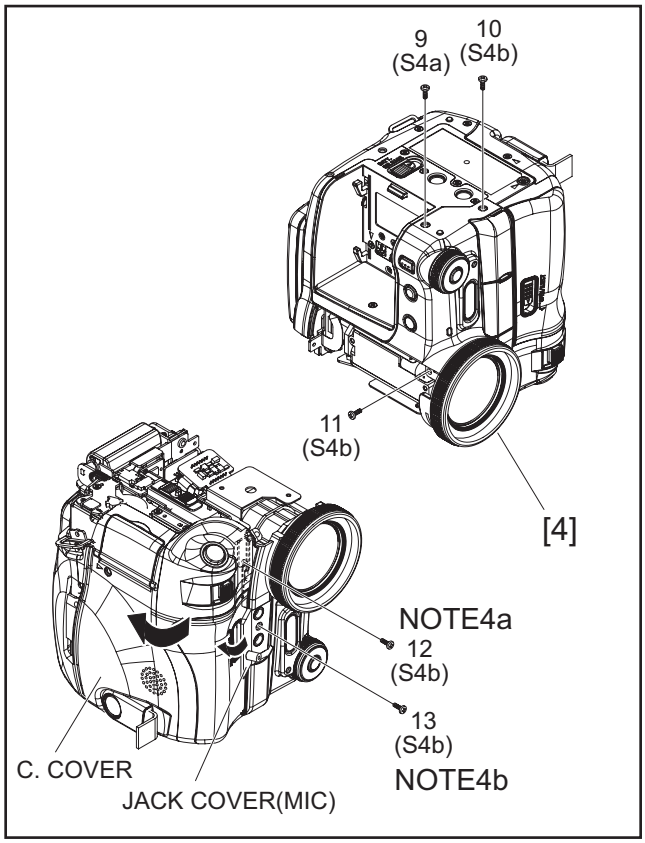



Fig.FA4-1

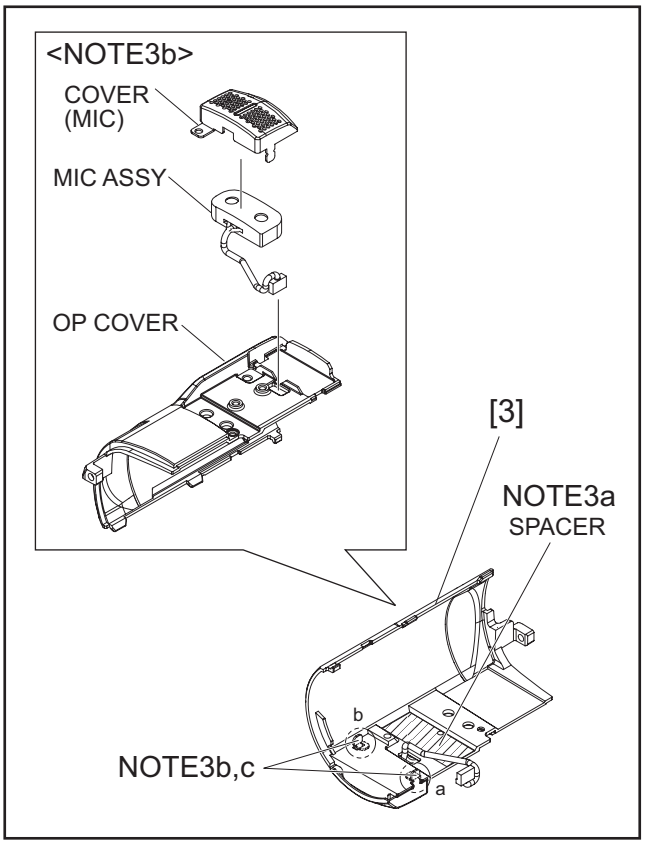



Fig.FA3-2

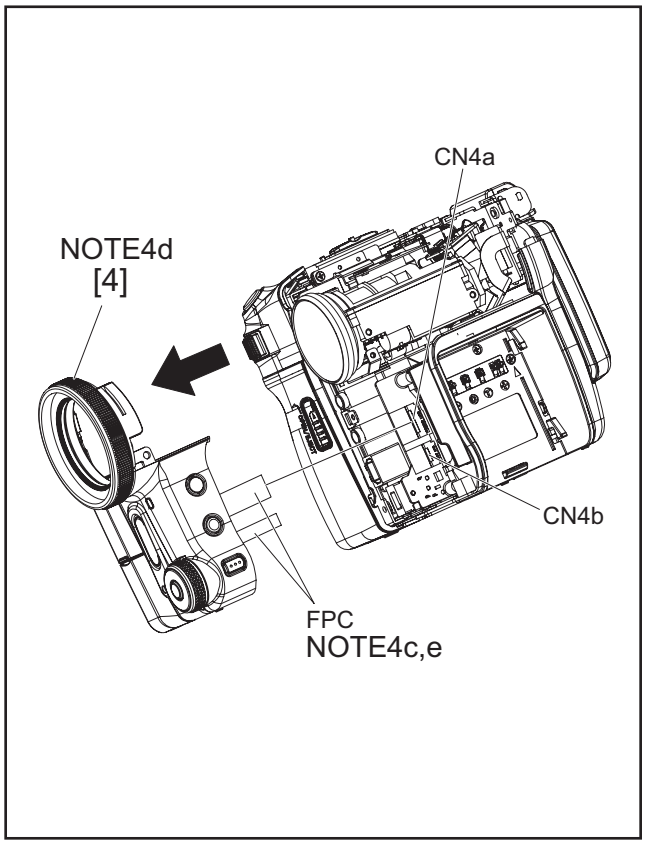



Fig.FA4-2

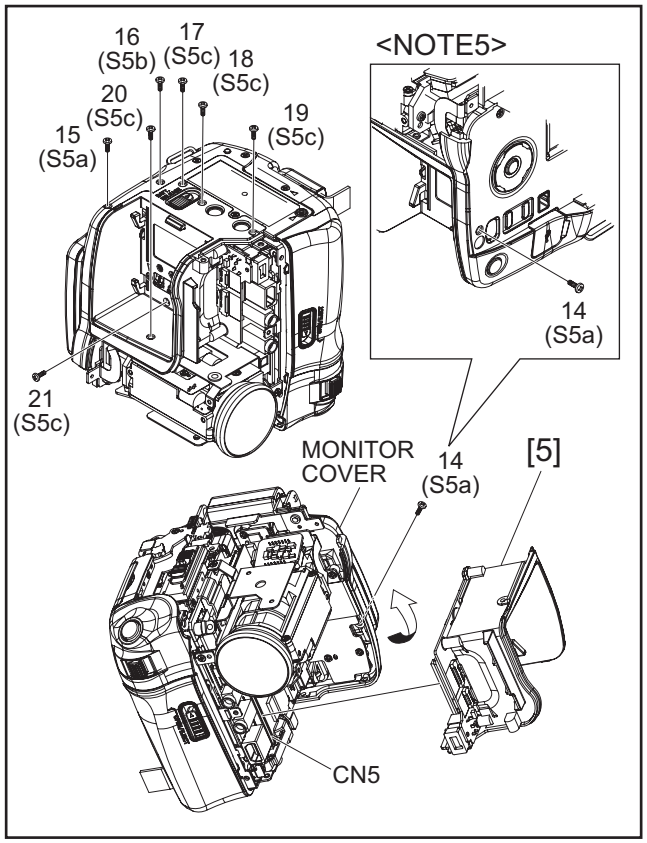



Fig.FA5-1

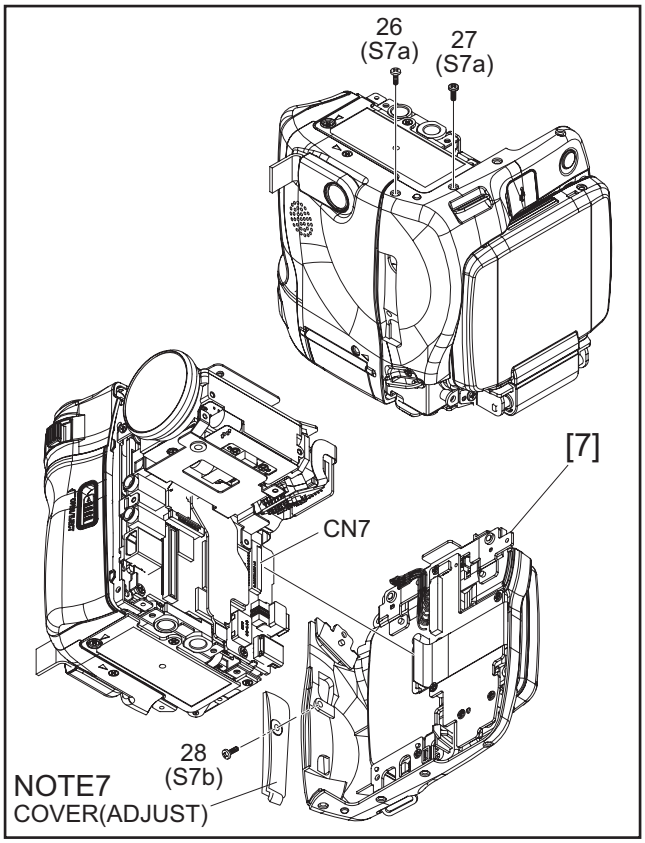



Fig.FA6-1

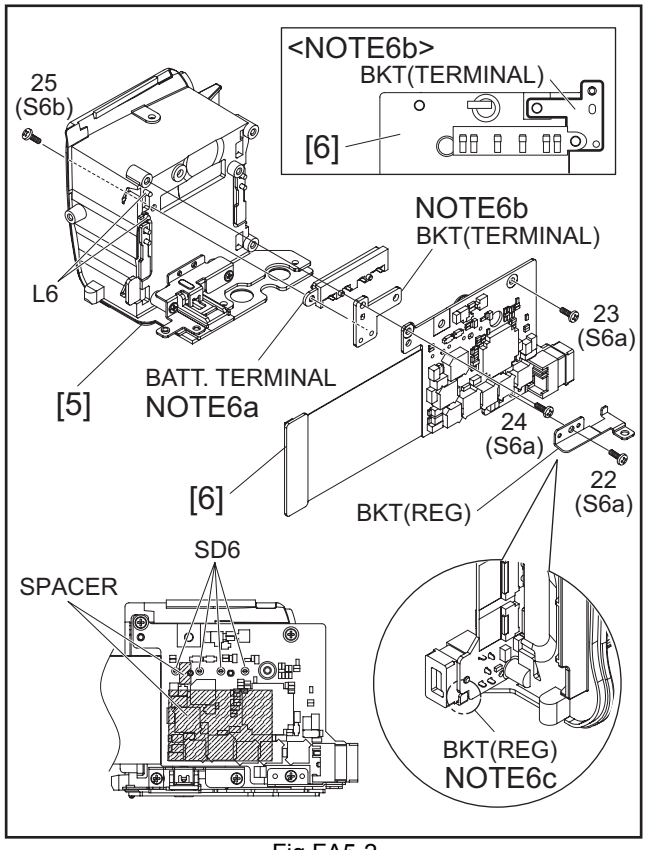



Fig.FA5-2

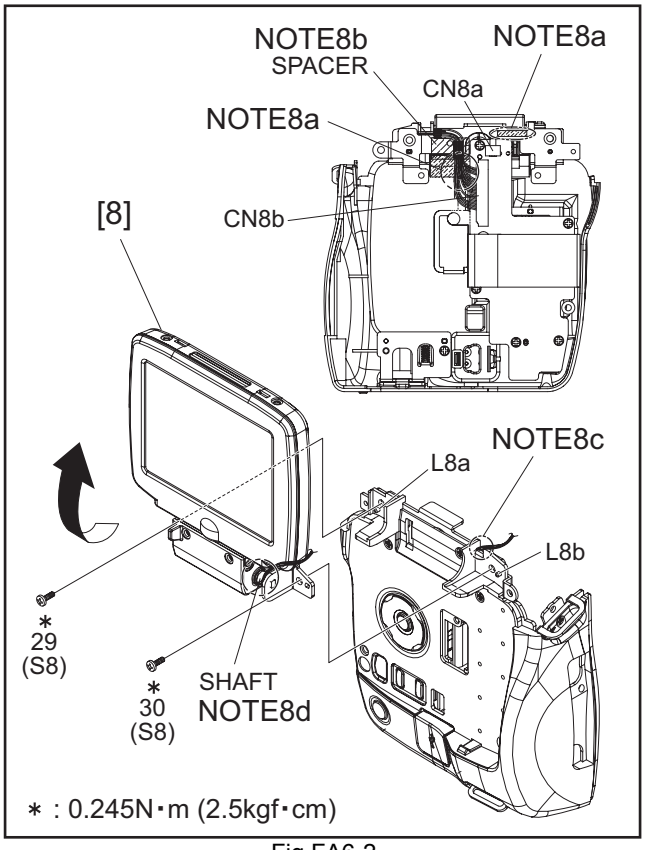



Fig.FA6-2

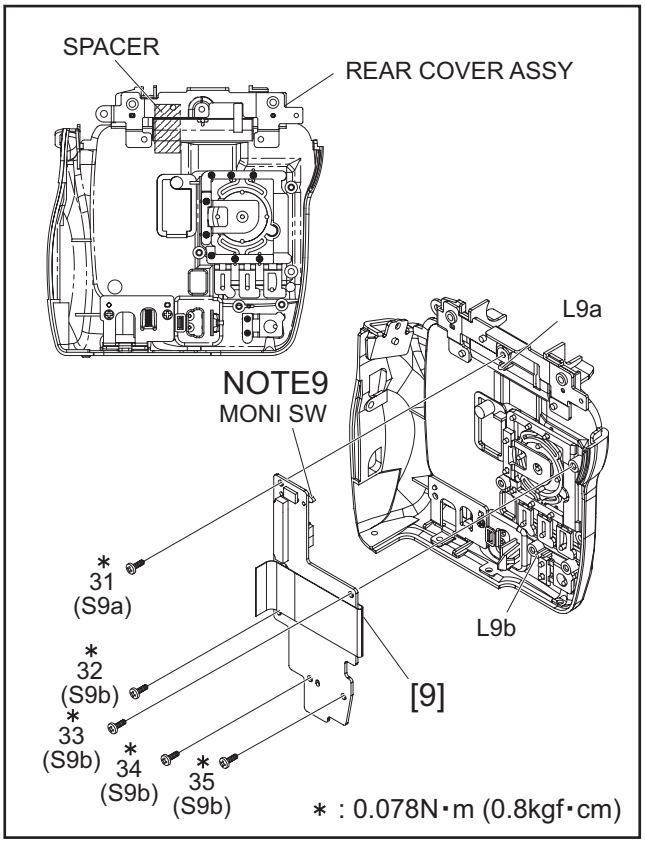



Fig.FA6-3

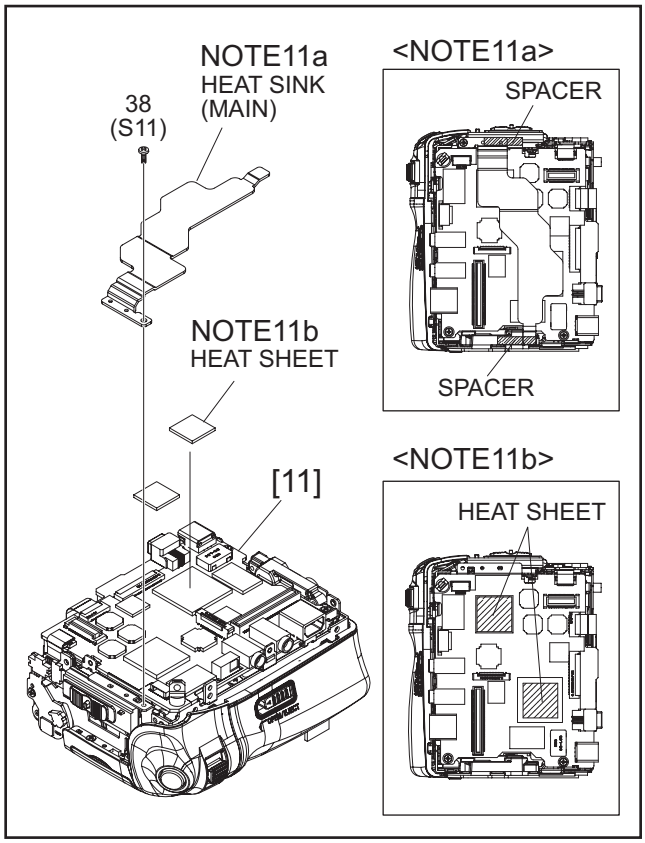



Fig.FA8-1

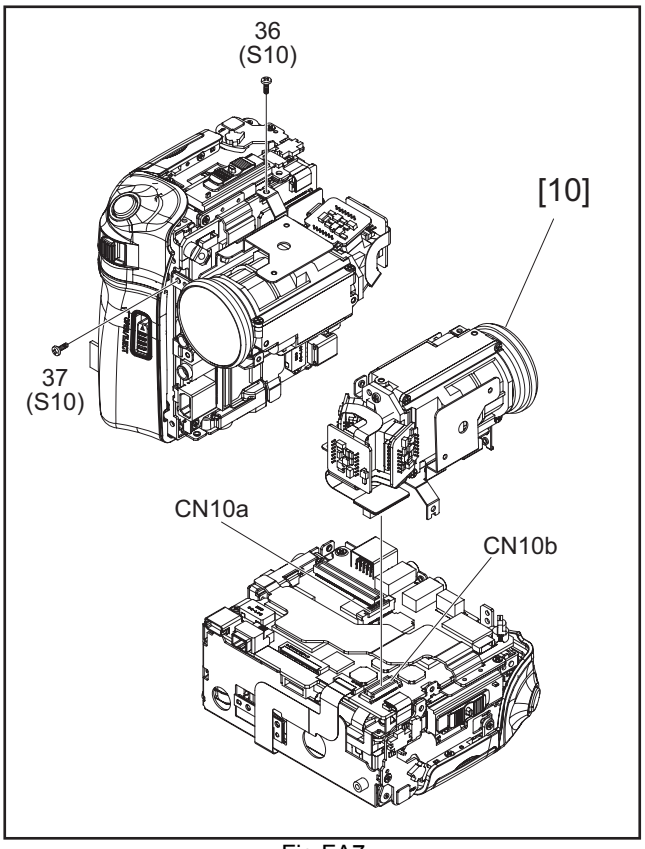



Fig.FA7

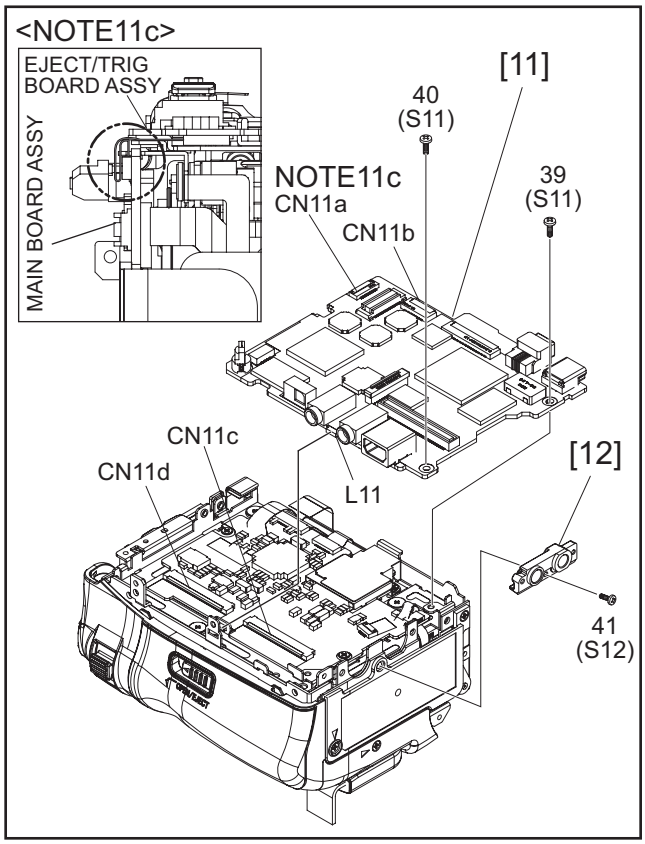



Fig.FA8-2

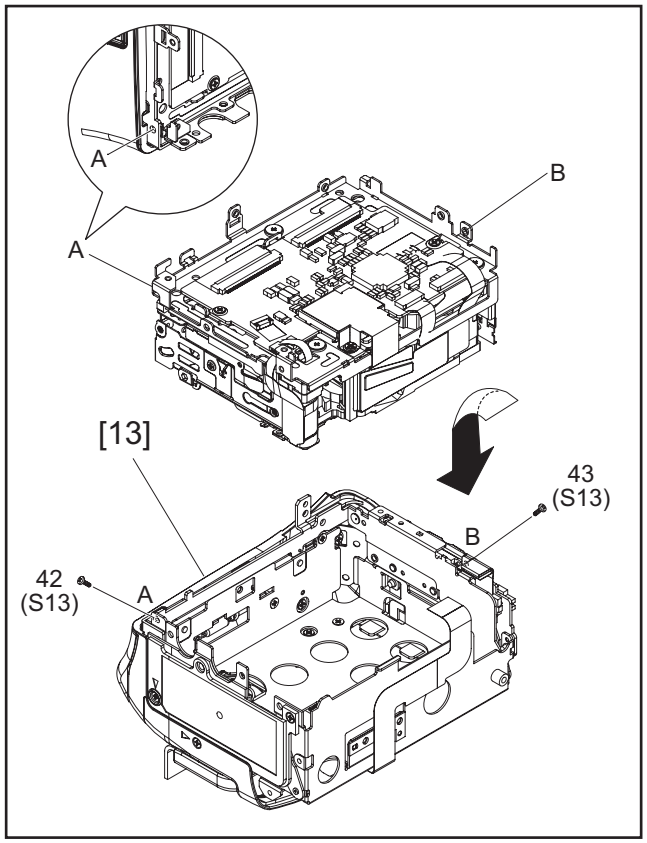



Fig.FA9

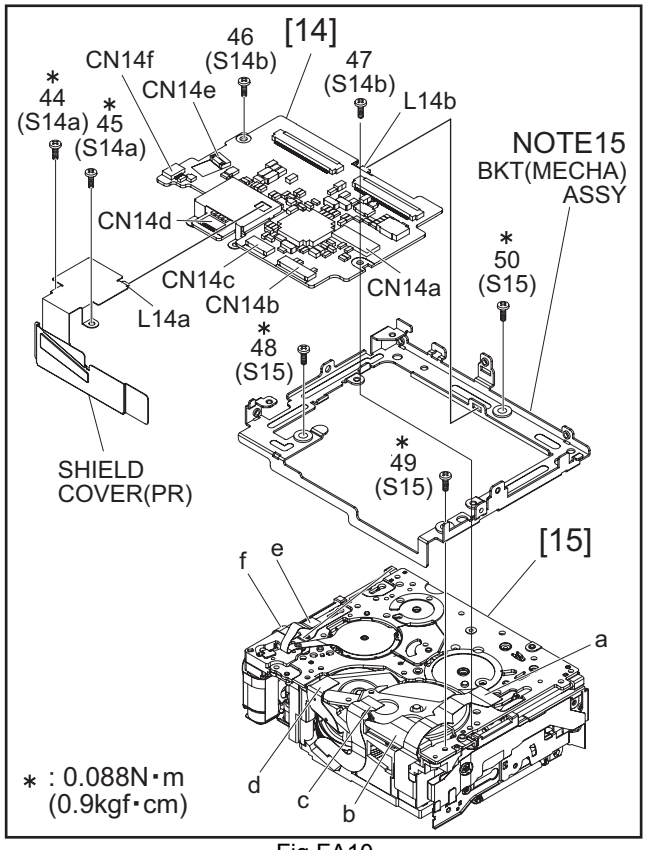



Fig.FA10

### 3.2.3 ASSEMBLY/DISASSEMBLY OF [13] C.COVER ASSEMBLY

**●Disassembly procedure**

| STEP No. | PART NAME | Fig. No. | POINT | NOTE |
|---|---|---|---|---|
| [1] | POWER OPE UNIT | C1 | CN1,2(S1),2(L1) | - |
| [2] | EJECT/TRIG BOARD ASSY | | S2,L2a,L2b | NOTE2 |
| [3] | BOTTOM CASE | | S3a,S3b,2(L3) | - |
| [4] | ARM ASSY | C2 | 2(S4a),2(L4a),S4b,2(S4a),4(S4c) | NOTE4 |
| [5] | SD BOARD ASSY | C3 | S5a,L5a,2(S5a),2(L5b),2(S5c),L5c,L5d,2(L5e),CN5 | NOTE5a,b |
| [6] | ZOOM ASSY | C4 | CN6 | - |
| [7] | SPEAKER | C5 | S7,2(L7),BKT(SPK) | NOTE7 |

**NOTE2:**
Be careful not to damage the EJECT SW. During the procedure, leave the C. COVER closed.

**NOTE4:**
When removing the screws (No.13 and No.14), use a longer screw driver as an ordinary screw driver does not reach the screws.

**NOTE5a:**
Prior to the procedure, remove the SD card or other memory.

**NOTE5b:**
During the procedure, be careful not to damage the WIRE.

**NOTE7:**
Place the WIRE through the space.

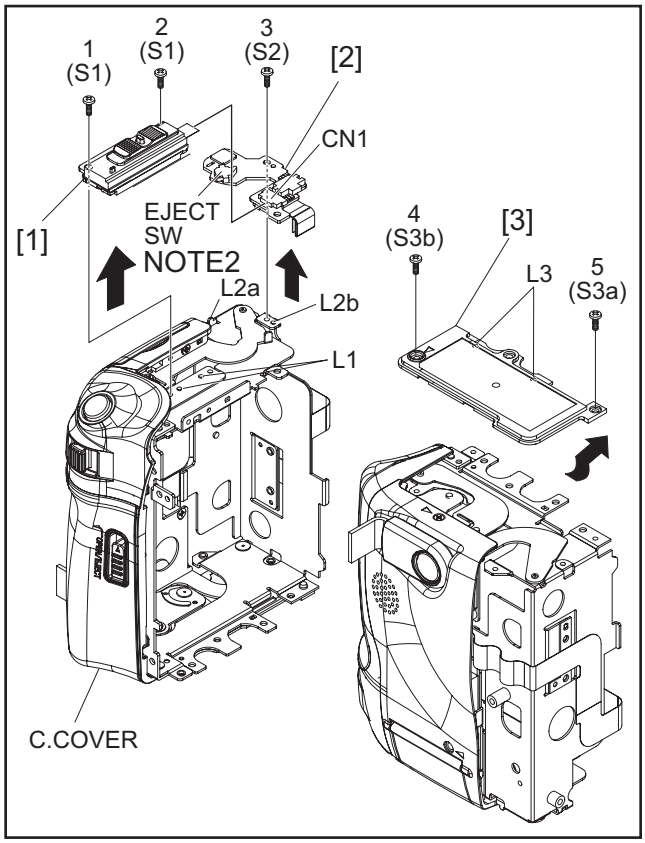


Fig.C1

**●Destination of connectors**

| CN.NO. | CONNECTOR | | | | | PIN NO. |
|---|---|---|---|---|---|---|
| CN1 | EJECT/TRIG | CN902 | ⇔ | POWER OPE UNIT | - | 8 |
| CN5 | SD | CN704 | ↔ | SPEAKER | - | 2 |
| CN6 | SD | CN703 | ⇔ | ZOOM FPC | - | 6 |

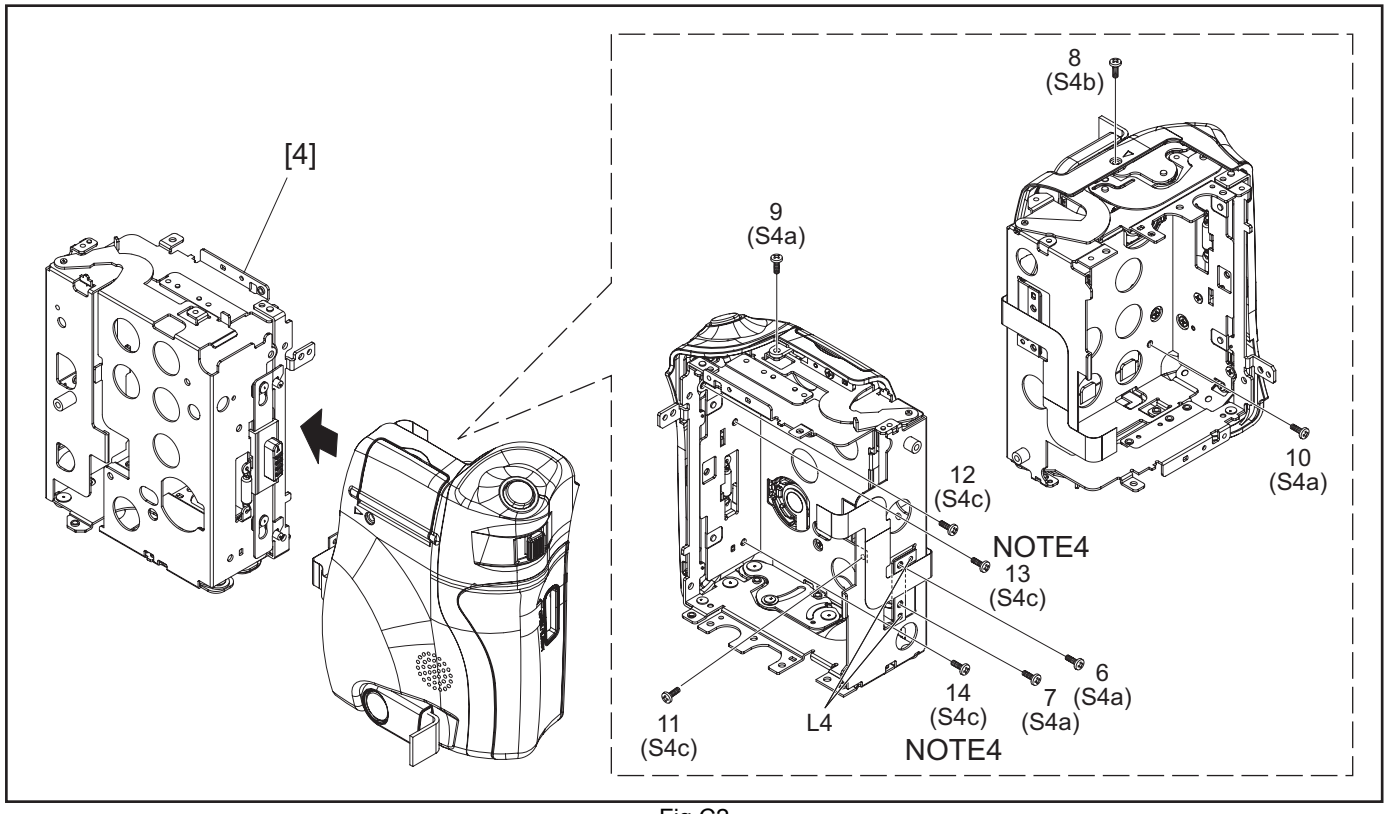


Fig.C2

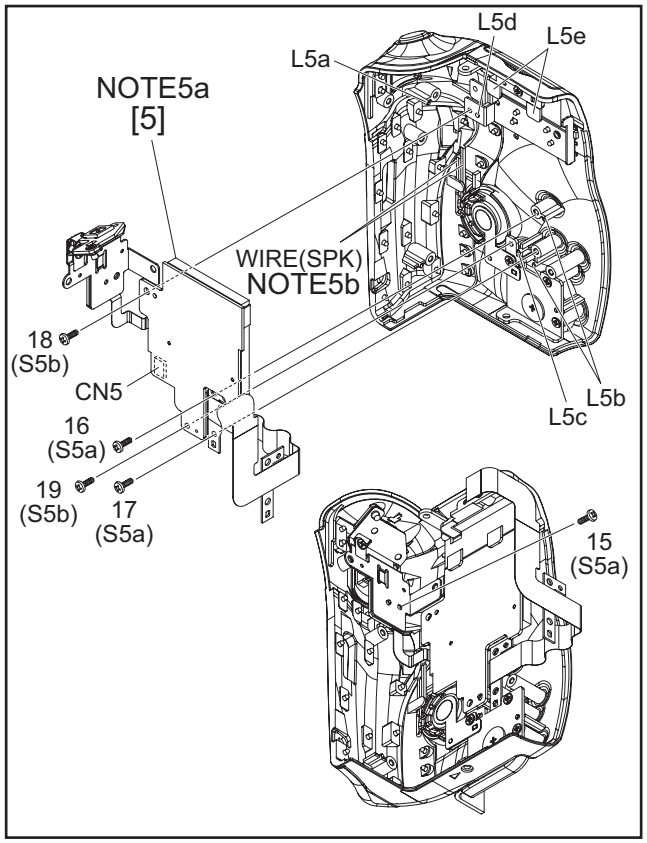



Fig.C3

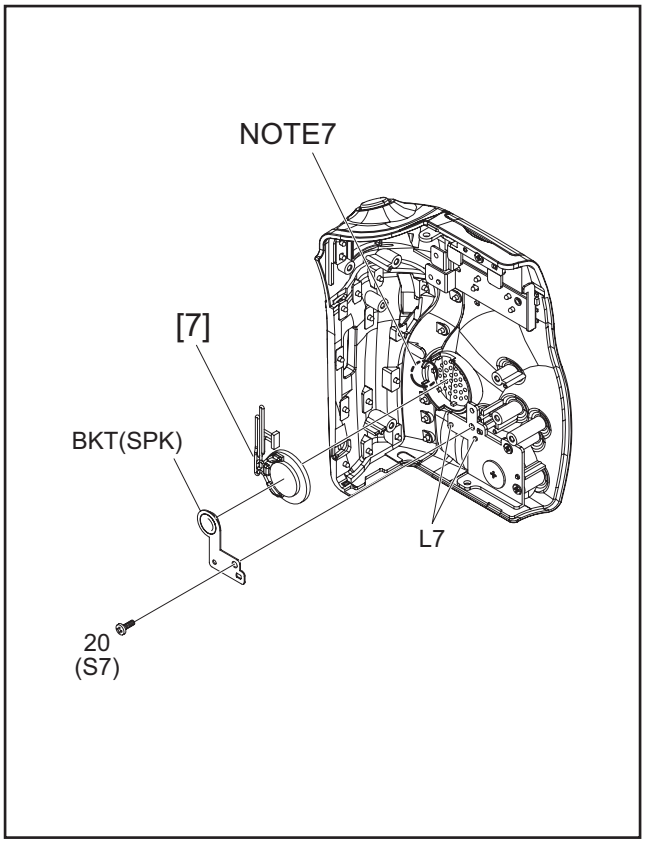



Fig.C5

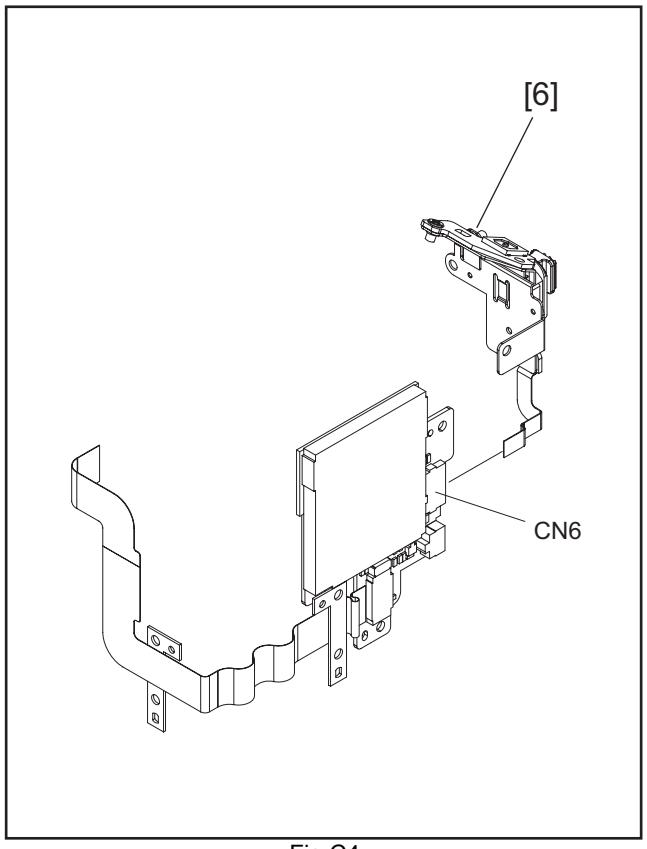



Fig.C4

### 3.2.4 ASSEMBLY/DISASSEMBLY OF [8] MONITOR ASSEMBLY

**●CAUTIONS**

(1) Remove the MONITOR ASSEMBLY from the REAR COVER ASSEMBLY first, as they are removed together in main parts disassembly, and then proceed to the disassembly procedure.

(2) During the procedure, be careful in handling the LCD MODULE and other parts. Pay special attention not to damage or soil the monitor screen.
If fingerprints are left on the screen, wipe them with clean chamois leather or a cleaning cloth.

(3) During the procedure, be careful not to break the U/D SW or cut the FPC.

**●Removing MONITOR ASSEMBLY**

(1) Turn the HINGE UNIT ASSEMBLY 90°, and remove the four screws (1-4). Remove the MONITOR COVER by removing the four hooks (L8a-d).

**NOTE8a:**
fix the SPACER along the line.

(2) Pull out the M_RVS SW BOARD ASSEMBLY from the MONITOR CASE.

(3) Pull out the WIRE from the connector(CN8a), and remove the HINGE UNIT ASSEMBLY by lifting it up.

**NOTE8b:**
During the procedure, be careful in handling the WIRE. After connecting the WIRE, place the loosen WIRE in the position indicated with the arrow.

(4) Release the lock of the connector (CN8b), and pull out the FPC.

(5) Remove the MONITOR BOARD ASSEMBLY and the BACK LIGHT together.

**NOTE8c:**
Since the BACKLIGHT is soldered to the MONITOR BOARD ASSEMBLY (SD8), they should be removed together except for the replacement.

(6) Remove the BKT(LCD) .

(7) Remove the LCD MODULE (liquid crystal).

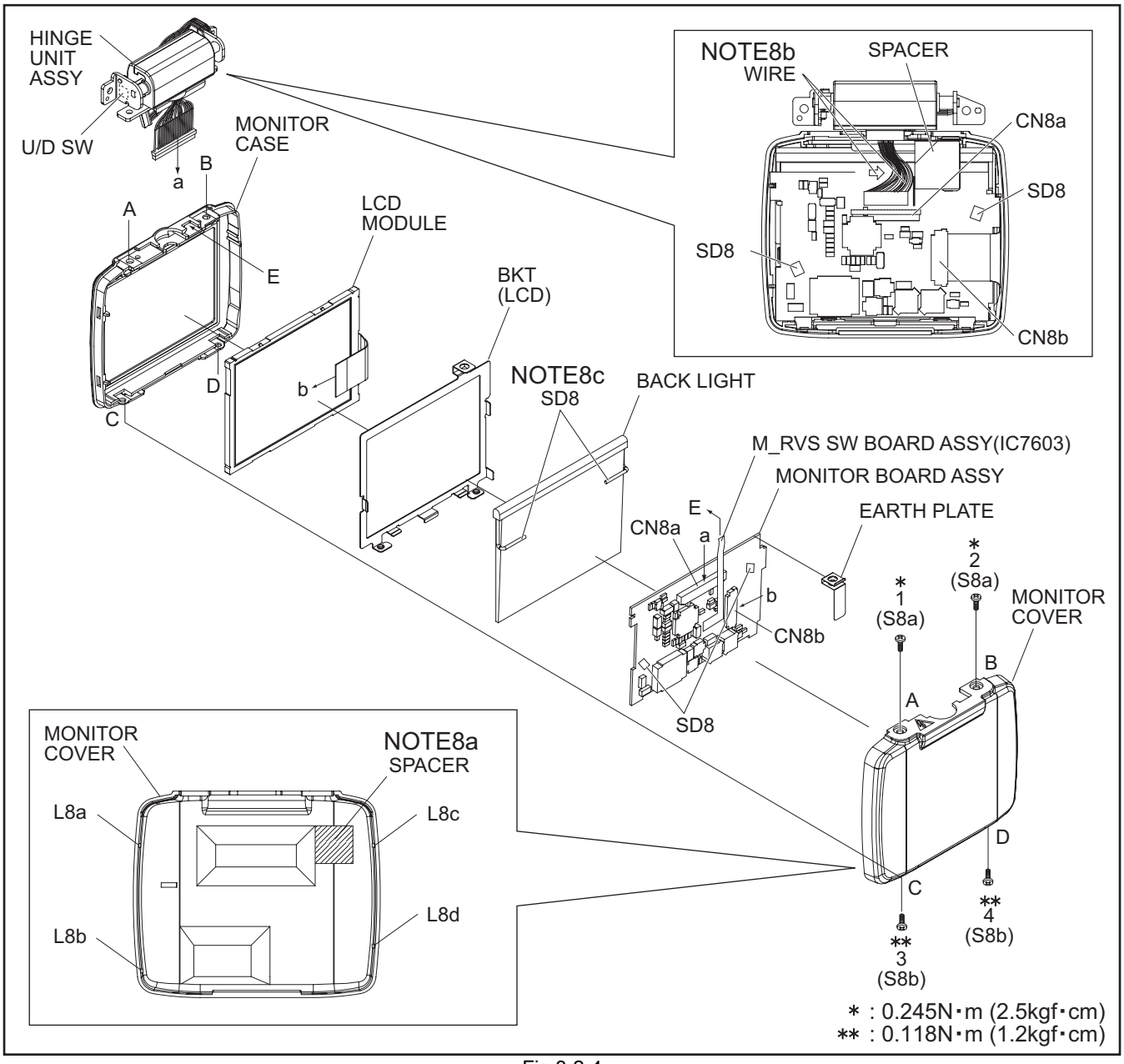



Fig.3-2-4

### 3.2.5 ASSEMBLY/DISASSEMBLY OF [10] OP BLOCK ASSMBLY/CCD BOARD ASSEMBLY

**●Precautions**

(1) Take care in handling the CCD IMAGE SENSOR, OP LPF and lens components when performing maintenance etc., especially with regard to surface contamination, attached dust or scratching. If fingerprints are present on the surface they should be wiped away using either a silicon paper, clean chamois or the cleaning cloth.

(2) The CCD IMAGE SENSOR may have been shipped with a protective sheet attached to the transmitting glass. When replacing the CCD IMAGE SENSOR, do not peel off this sheet from the new part until immediately before it is mounted in the OP BLOCK ASSEMBLY.

(3) The orientation of the OP LPF is an important factor for installation. If there is some marking on the OP LPF, be sure to note it down before removing and to reassemble it very carefully as it was referring to the marking.

**●Disassembly of CCD BOARD ASSEMBLY and CCD BASE ASSEMBLY**

(1) Remove the two screws (1,2), and remove the BKT(TOP).

**NOTE10a:**
When attaching, pay attention to the SPACER affix position.

(2) Remove the three screws (3-5), and remove the BKT(OP) ASSEMBLY.

**NOTE10b:**
There are two different procedures for the following disassembly.
Two different procedures for disassembly: <1> Remove the soldered PRISM ASSEMBLY and CCD BOARD ASSEMBLY together from the OP BLOCK ASSEMBLY. <2> Remove the OP BLOCK ASSEMBLY and the PRISM ASSEMBLY together from the CCD BOARD ASSEMBLY. Perform the assembly as needed.

(3) <1> Removing the soldered PRISM ASSEMBLY and CCD BOARD ASSEMBLY together from the OP BLOCK ASSEMBLY

a) Remove the five screws (6-10), and remove the PRISM ASSEMBLY, CCD BOARD ASSEMBLY and HEAT SINK as a whole unit.

<2> Removing the OP BLOCK ASSEMBLY and the PRISM ASSEMBLY together from the CCD BOARD ASSEMBLY

a) Unsolder the fourteen soldered points (SD10a) which attach each CCD BOARD ASSEMBLY, and remove the CCD BOARD ASSEMBLY.

b) Remove the two screws (6,7), and remove the HEAT SINK.

c) Remove the HEAT SHEET.

**NOTE10c:**
Be careful in handling the HEAT SHEET.
When attaching, firmly attach the HEAT SINK to the HEAT SHEET with screws.

d) Remove the three screws (8-10), and remove the PRISM ASSEMBLY.

**NOTE10d:**
Note that the PRISM ASSEMBLY cannot be disassembled. The PRISM ASSEMBLY should be replaced as a whole unit.

**●Replacing service repair parts**

The service repair parts of the OP BLOCK ASSEMBLY are as follows.
When replacing the parts, pay special attention not to break the FPC, or not to damage the parts by soldering (overheat).

(1) FOCUS MOTOR UNIT
(2) ZOOM MOTOR UNIT
(3) IRIS UNIT

**NOTE10e:**
When replacing the FOCUS MOTOR UNIT or the ZOOM MOTOR UNIT, space the FPC approximately 1 mm above from the jack and then solder it (SD10b).

**NOTE10f:**
When assembling, make sure to interlock the slide part of the OP BLOCK properly to the axis of the ZOOM MOTOR UNIT.

**NOTE10g:**
When removing the IRIS UNIT, fully pull the slide part which is interlocked to the axis of the FOCUS MOTOR UNIT to the CCD side.

**NOTE10h:**
IRIS UNIT includes the FPC ASSEMBLY and the SESOR x 2.

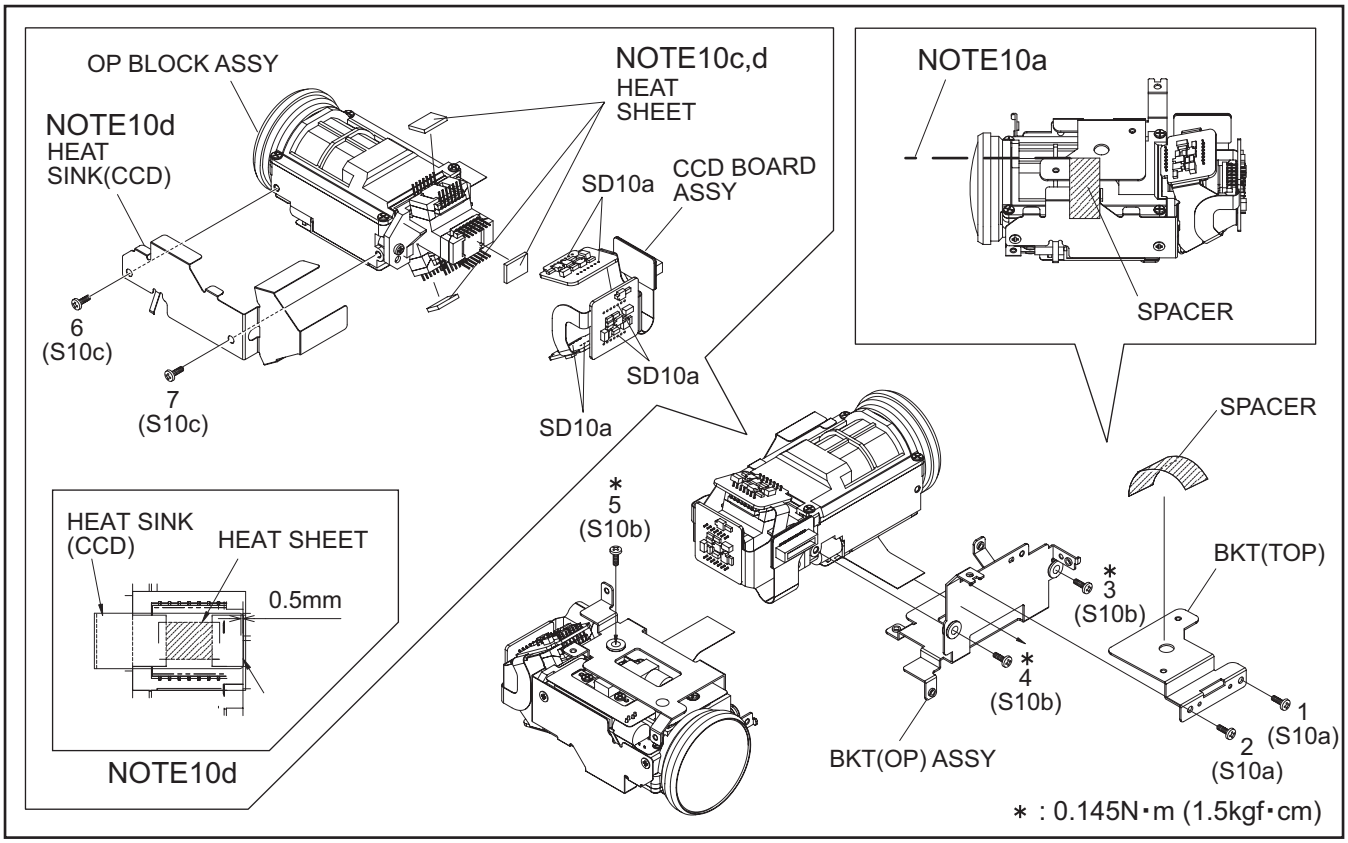



Fig.3-2-5-1

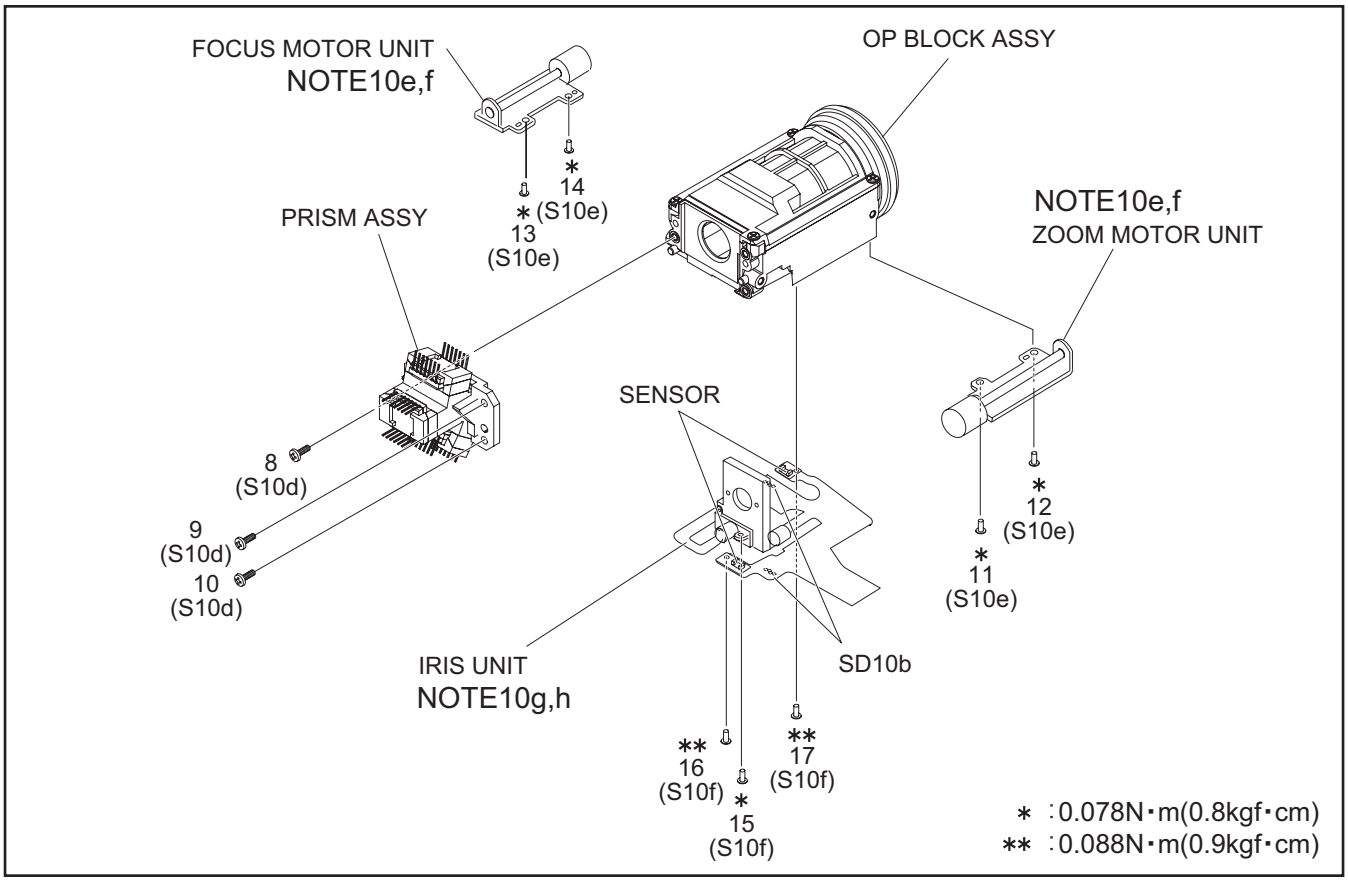



Fig.3-2-5-2

# SECTION 4
# ADJUSTMENT

## 4.1 PREPARATION

### 4.1.1 Precaution

Camera system and deck system of this model are specially adjusted by using PC.

However, if parts such as the following are replaced, an adjustment is required. The adjustment must be performed in a Service Center equipped with the concerned facilities.

- OP BLOCK ASSEMBLY
- MONITOR ASSEMBLY
- EEP ROM (IC4504 of MAIN board)

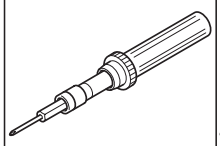
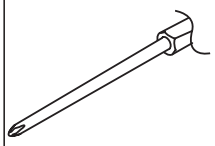
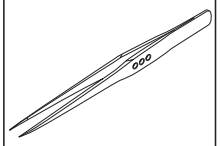
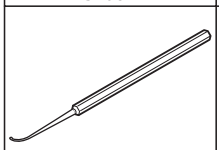
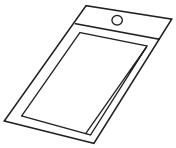
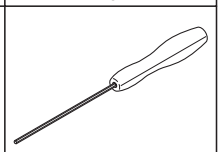
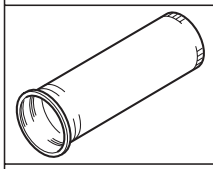
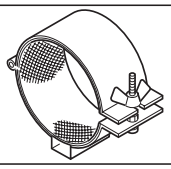
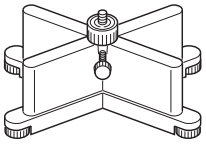
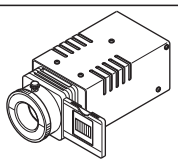
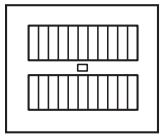
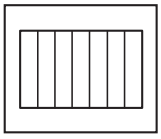
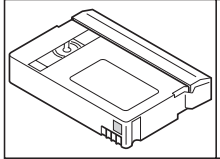
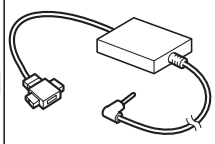
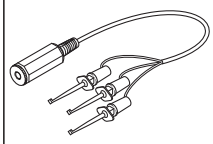
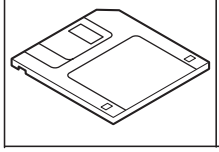
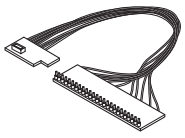
In the event of malfunction with electrical circuits, first find a defective portion with the aid of proper test instruments as shown in the following electrical adjustment procedure, and then commence necessary repair/ replacement/adjustment.

- In observing chip TP, use IC clips, etc. to avoid any stress. Prior to replacement of chip parts (especially IC), remove the solder completely to prevent peeling of the pattern.
- Use a patch cord if necessary. As for a patch cord, see the BOARD INTERCONNECTIONS.
- Since connectors are fragile, carefully handle them in disconnecting and connecting the FPC.

### 4.1.2 REQUIRED TEST EQUIPMENT

- Personal computer (for Windows)
- Color TV monitor
- Oscilloscope (dual-trace type, observable 100MHz or higher frequency). The one observable 300 MHz or higher frequency is recommended.
- Digital voltmeter
- DC power supply or AC adapter
- Frequency counter (with threshold level adjuster)

### 4.1.3 TOOLS REQUIRED FOR ADJUSTMENT

| | | |
|---|---|---|
| Torque Driver<br>YTU94088 | Bit<br>YTU94088-003 | Tweezers<br>P-895 |
|  |  |  |
| Chip IC Replacement Jig<br>PTS40844-2 | Cleaning Cloth<br>KSMM-01 | Guide Driver (Hexagonal)<br>D-770-1.27 |
|  |  |  |
| INF Adjustment Lens<br>YTU92001B | INF Adjustment Lens Holder<br>YTU94087 | Camera Stand<br>YTU93079 |
|  |  |  |
| Light box Assembly<br>YTU93096A | Gray Scale Chart<br>YTU94133A | Color Bar Chart<br>YTU94133C |
|  |  |  |
| Alignment Tape<br>MC-1 | PC Cable<br>QAM0099-002 | Communication Cable<br>YTU93107A |
|  |  |  |
| Service Support System<br>YTU94057-87 | Jig Connector Cable<br>YTU93106B | Conversion Connector<br>YTU94145J-30 |
|  |  | |

- **Torque driver**
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- **Bit**
  This bit is slightly longer than those set in conventional torque drivers.
- **Tweezers**
  To be used for removing and installing parts and wires.
- **Chip IC replacement jig**
  To be used for adjustment of the camera system.
- **Cleaning cloth**
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

- **Guide driver (Hexagonal)**
  To be used to turn the guide roller to adjustment of the linarity of playback envelope.
- **INF adjustment lens**
  To be used for adjustment of the camera system. For the usage of the INF adjustment lens, refer to the Service Bulletin No. YA-SB-10035.
- **INF adjustment lens holder**
  To be used together with the Camera stand for operating the Videocamera in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring. For the usage of the INF lens holder, refer to the Service Bulletin No. YA-SB-10035.
- **Camera stand**
  To be used together with the INF adjustment lens holder. For the usage of the Camera stand, refer to the Service Bulletin No. YA-SB-10035.
- **Light box assembly**
  To be used for adjustment of the camera system. For the usage of the Light box assembly, refer to the Service Bulletin No. YA-SB-10035.
- **Gray scale chart**
  To be used for adjustment of the camera system. For the usage of the INF adjustment lens, refer to the Service Bulletin No. YA-SB-10035.
- **Color bar chart**
  To be used for adjustment of the camera system. For the usage of the INF adjustment lens, refer to the Service Bulletin No. YA-SB-10035.
- **Alignment tape**
  To be used for check and adjustment of interchangeability of the mechanism.
- **PC cable**
  To be used to connect the Videocamera and a personal computer with each other when a personal computer issued for adjustment.
- **Communication cable**
  Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
- **Service support system**
  To be used for adjustment with a personal computer. Software can be downloaded also from JS-net.
- **Jig connector cable**
  Connected to JIG CONNECTOR of the main board and used for electrical adjustment, etc.
- **Conversion connector**
  Conversion connector is used to convert the connector part of the JIG connector cable.

## 4.2 JIG CONNECTOR CABLE CONNECTION

### 4.2.1 CAUTIONS

(1) Only 9 of 30pins of JIG CONNECTOR CABLE(PN:YTU93106B) are extended with wires. Additional 5pins (3,6,7,11and18) need to be soldered and extended with the wires for adjustment and checking.
See Fig. 4-2-1 for details.

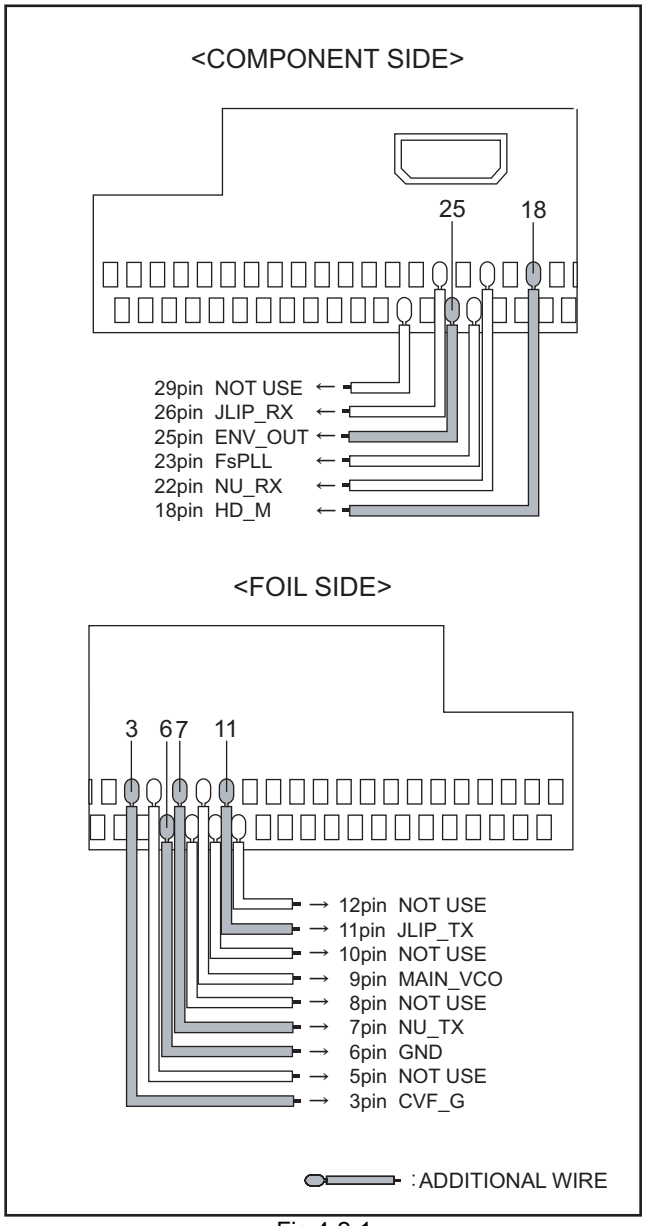



Fig.4-2-1

## ■ Connection procedure

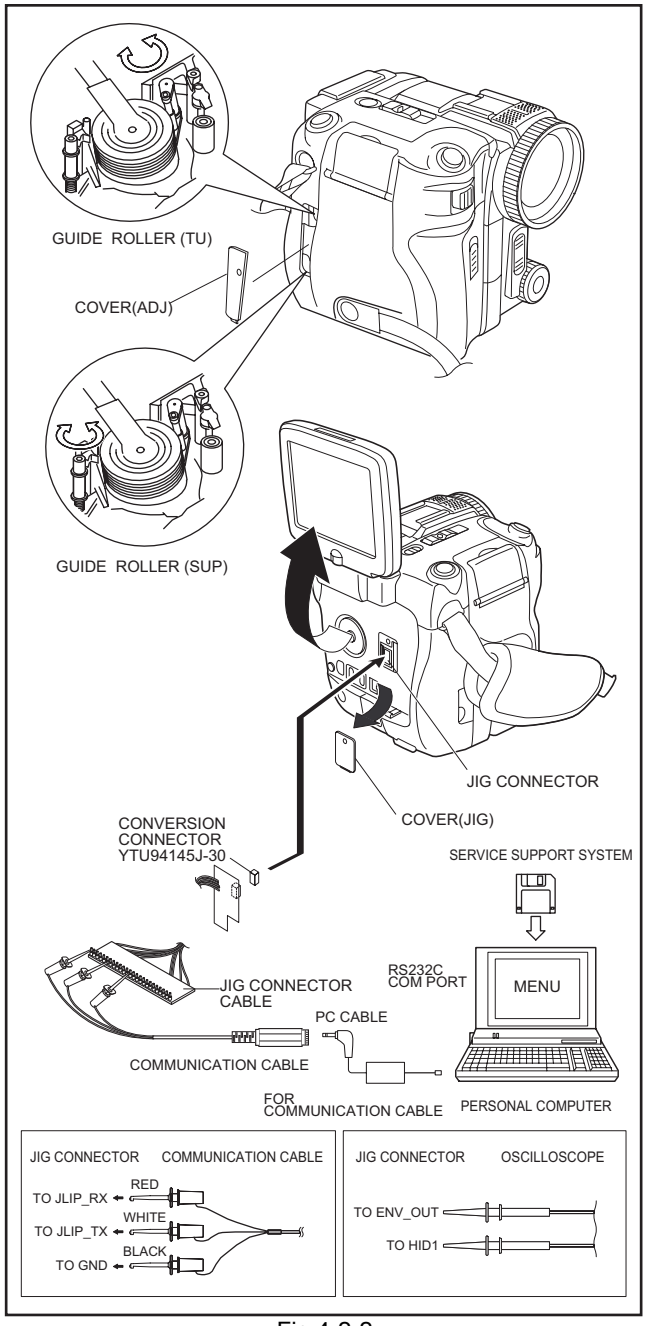



Fig.4-2-2

## ■ Jig connector diagrams

JIG CONNECTOR CABLE (YTU93106B)

MAIN CN110

| | | | |
|---|---|---|---|
| nJRESET | 1 | | |
| MOD0 | | 16 | |
| ARMTDI | 2 | | |
| nARMTRST | | 17 | |
| CVF_G | 3 | | |
| HD_M | | 18 | |
| CVF_B | 4 | | |
| CVF_R | | 19 | |
| V_OUT | 5 | | |
| VCOM_M | | 20 | |
| GND | 6 | | |
| GND | | 21 | |
| NU_TX | 7 | | |
| NU_RX | | 22 | |
| HID1 | 8 | | |
| FS_PLL | | 23 | |
| MAIN_VCO | 9 | | |
| ATFI | | 24 | |
| PB_CLK | 10 | | |
| ENV_OUT | | 25 | |
| JLIP_TX | 11 | | |
| JLIP_RX | | 26 | |
| AL_3VSYS | 12 | | |
| IF_TX | | 27 | |
| FL_MD0 | 13 | | |
| RESET | | 28 | |
| ARMTCK | 14 | | |
| ARMTMS | | 29 | |
| REG_3.1V | 15 | | |
| ARMTDO | | 30 | |

JIG CONN. BOARD (PIN NO.)

| | |
|---|---|
| 1 | nJRESET |
| 2 | ARMTDI |
| 3 | CVF_G |
| 4 | CVF_B |
| 5 | V_OUT |
| 6 | GND |
| 7 | NU_TX |
| 8 | HID1 |
| 9 | MAIN_VCO |
| 10 | PB_CLK |
| 11 | JLIP_TX |
| 12 | AL_3VSYS |
| 13 | FL_MD0 |
| 14 | ARMTCK |
| 15 | REG_3.1V |
| 16 | MOD0 |
| 17 | nARMTRST |
| 18 | HD_M |
| 19 | CVF_R |
| 20 | VCOM_M |
| 21 | GND |
| 22 | NU_RX |
| 23 | FS_PLL |
| 24 | ATFI |
| 25 | ENV_OUT |
| 26 | JLIP_RX |
| 27 | IF_TX |
| 28 | RESET |
| 29 | ARMTMS |
| 30 | ARMTDO |

ADDITIONAL WIRE

- 3. CVF_G
- 6. GND
- 7.NU_TX
- 11.JLIP_TX
- 18.HD_M
- 25.ENV_OUT

Fig.4-2-3

## 4.3 MECHANISM COMPATIBILITY ADJUSTMENT

### 4.3.1 Tape pattern adjustment

**NOTE:**

Prior to the adjustment, remove the COVER (ADJ).

(1) Play back the compatibility adjustment tape.
(2) While triggering the HID, observe the waveform of ENV_OUT.
(3) Set the manual tracking mode (ATF OFF).
(4) Confirm that the waveform is entirely parallel and straight, and free from remarkable level-down, through the tracking operation.
Make the confirmation as follows if necessary.
(5) If level-down is observed on the left hand side of the waveform, straighten the level by turning the GUIDE ROLLER (SUP).
If level-down is observed on the right hand side of the waveform, straighten the
level by turning the GUIDE ROLLER (TU).
(6) After the adjustment, try the unloading motion once, and confirm that the waveform is flat when the tape has been played back again.
(7) Play back the self-recording.
(8) Confirm that the waveform is flat.

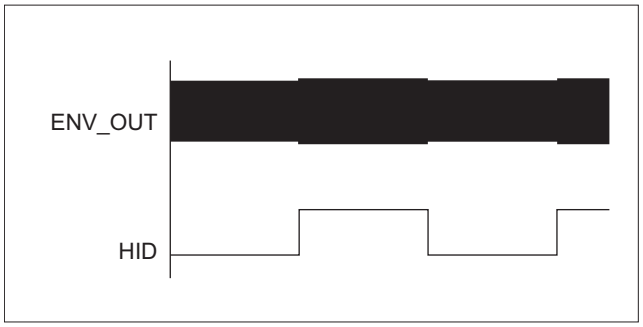



Fig.4-3-1

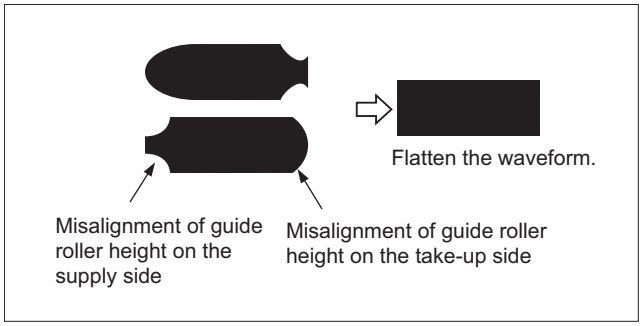

Flatten the waveform.
Misalignment of guide roller height on the supply side
Misalignment of guide roller height on the take-up side

Fig.4-3-2

## 4.4 ELECTRICAL ADJUSTMENT

Electrical adjustment is performed by using a personal computer and software for SERVICE SUPPORT SYSTEM. Read README.TXT file to use the software properly.
As for the connection of cables, see "4.2 JIG CONNECTOR CABLE CONNECTION".

CABINET PARTS AND ELECTRICAL PARTS(1)

| Symbol No. | [1] | | [2] | | | | [3] | | [4] | | | | | [5] | | | | | | | | [6] | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Removing order of screw | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| Place to stick screw | | | * | ** | ** | * | * | * | * | ** | ** | ** | ** | | | ** | * | * | * | * | * | | | | ** |
| Reference drawing (Fig.No.) | FA1 | | FA2 | | | | FA3-1 | | FA4-1 | | | | | FA5-1 | | | | | | | | FA5-2 | | | |
| Screw tightening torque | b | | a | | | | | | | | | | | | | | | | | | | | | | |

CABINET PARTS AND ELECTRICAL PARTS(2)

| Symbol No. | [7] | | | [8] | | [9] | | | | | [10] | | [11] | | | [12] | [13] | | [14] | | | | [15] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Removing order of screw | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| Place to stick screw | ** | ** | ** | ** | ** | ** | | | | | ** | ** | ** | ** | ** | * | ** | ** | | | ** | ** | | | |
| Reference drawing (Fig.No.) | FA6-1 | | | FA6-2 | | FA6-3 | | | | | FA7 | | FA8-1 | FA8-2 | | | FA9 | | FA10 | | | | | | |
| Screw tightening torque | a | | | b | | c | | | | | a | | | | | | | | d | | a | | d | | |

[13] CASETTE COVER ASSY

| Symbol No. | [1] | | [2] | [3] | | [4] | | | | | | | | [5] | | | | | [6] | [7] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Removing order of screw | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | - | 20 |
| Place to stick screw | ** | ** | ** | ** | ** | ** | ** | ** | ** | ** | | | | | | | | ** | ** | - | |
| Reference drawing (Fig.No.) | C1 | | | | | C2 | | | | | | | | | C3 | | | | | C4 | C5 |
| Screw tightening torque | a | | | | | | | | | | | | | | | | | | | - | a |

[8]MONITOR ASSY

| Symbol No. | [8] | | | |
|---|---|---|---|---|
| Removing order of screw | 1 | 2 | 3 | 4 |
| Place to stick screw | * | * | * | * |
| Reference drawing (Fig.No.) | 3-2-4 | | | |
| Screw tightening torque | b | | e | |

[10] OP BLOCK ASSY / CCD BOARD ASSY

| [10] | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| ** | ** | | | | | | | | | | | | | | | |
| 3-2-5-1 | | | | | | | | 3-2-5-2 | | | | | | | | |
| a | | f | | | a | | | | | c | | | | d | | |

**NOTE:**

1）* and ** (This mark shows where to attach the screws) : Do not reuse the screws because the screw lock bond was applied to prevent the screws from loosening. Prepare the specified screws and use them in place of the removed screws.

2）Tightening torque for the screws

- There are setting limits of the torque value for the torque driver. If the value exceeds the setting value, take it as a rough measurement (reference value), and tighten the screw manually.
- The specified torque value is a recommended value of the initial assembly. Therefore, set the value below the specified torque value in the assembling procedure. Be careful not to break either the screws or the screw holes.

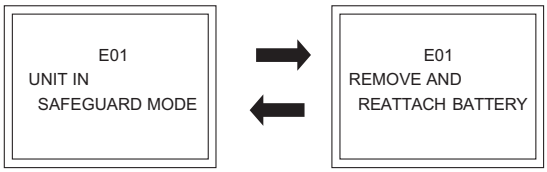
a : 0.098N･m (1.0kgf･cm)　b : 0.245N･m (2.5kgf･cm)　c : 0.078N･m (0.8kgf･cm)　d : 0.088N･m (0.9kgf･cm)　e : 0.118N･m (1.2kgf･cm)　f : 0.145N･m (1.5kgf･cm)

## 5.2 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the electronic view finder).In every error status, such the message as shown below alter nately appear over and over.

- In an emergency mode, all operations except turning on/off the POWER switch are ineffectual.

**Example (in case of the error number E01):**




| LCD display | Emergencymode | Details | Possible cause |
|---|---|---|---|
| E01 | LOADING | In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01]. | 1. The mechanism is locked during mode shift.<br>2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.<br>3. No power is supplied to the loading MDA. |
| E02 | UNLOADING | In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02]. | 1. The mechanism is locked during mode shift.<br>2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. |
| E03 | TU & SUP REEL FG | In the case no REEL FG is produced for seconds shown in the table below or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03].However, no REEL EMG is detected in the SLW/STILL mode.<br>REEL(SUP) / REEL(TU)<br>PB/REC: 3 SEC / 3 SEC<br>S-FWD: 3 SEC / 0.3 SEC<br>S-REW: 0.3 SEC / 3 SEC<br>FF: 3 SEC / 0.1 SEC<br>REW: 0.1 SEC / 3 SEC | 1. The idler gear does not engage with the reel disk well.<br>2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism.<br>3. No FG pulse is output from the reel sensor.<br>4. No power is supplied to the reel sensor.<br>5. Tape transport operation takes place with a cassette having no tape inside.<br>6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status. |
| E04 | DRUM FG | In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off. | 1. The drum cannot be started or drum rotation is stopped because tape transport load is too high.<br>1) Tape tension is extremely high.<br>2) The tape is damaged or soiled with grease, etc.<br>2. The DRUM FG signal is not received by the syscon CPU.<br>1) Disconnection in the middle of the signal line.<br>2) Failure of the DRUM FG pulse generator (hall element).<br>3. No drum control voltage is supplied to the MDA.<br>4. No power is supplied to the DRUM MDA. |
| E05 | - | - | - |
| E06 | CAPSTAN FG | In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off.However, no CAPSTAN EMG is detected in the STILL/FF/REW mode. | 1. The CAPSTAN FG signal is not received by the syscon CPU.<br>1) Disconnection in the middle of the signal line.<br>2) Failure of the CAPSTAN FG pulse generator (MR element).<br>2. No capstan control voltage is supplied to the MDA.<br>3. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high.<br>1) Tape tension is extremely high. (Mechanical locking)<br>2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.) |

Fig.5-2-1

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY CAMCORDER CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YF098)

Printed in Japan
VPT

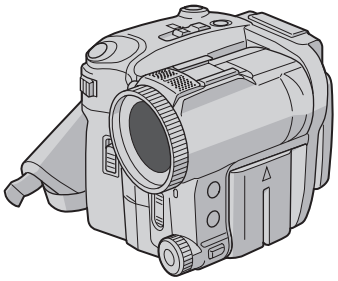
JVC

# SCHEMATIC DIAGRAMS

## DIGITAL VIDEO CAMERA

# GR-X5US

**CD-ROM No.SML200506**



Mini DV NTSC

SD

MultiMediaCard

GR-X5US[M5D727]

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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**No.YF098SCH**
**2005/6**

# CHARTS AND DIAGRAMS

## NOTES OF SCHEMATIC DIAGRAM

**Safety precautions**
**The Components indentified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.**

**1. Units of components on the schematic diagram**

Unless otherwise specified.

1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ(1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in µF, (P: PF).
3) All inductance values are in µH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

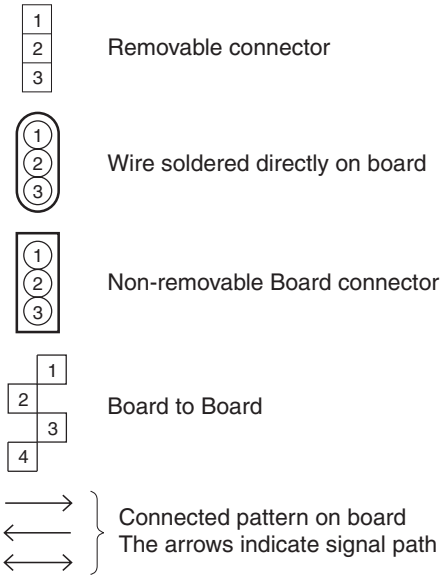
**Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.**

**2. Indications of control voltage**

AUX : Active at high.

$\overline{\text{AUX}}$ or AUX(L) : Active at low.

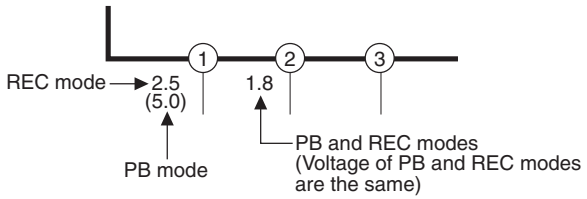
**3. Interpreting Connector indications**




**Note: For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"**

**4. Voltage measurement**

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
2) Indication on schematic diagram
   Voltage indications for REC and PB mode on the schematic diagram are as shown below.

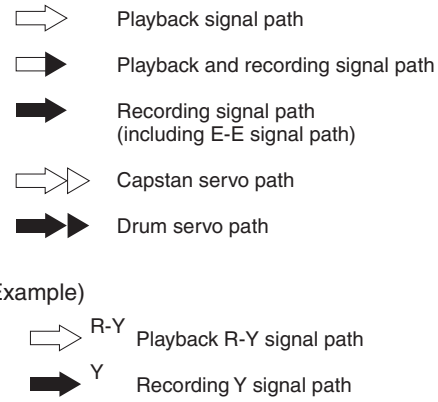



**Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.**

**5. Signal path Symbols**

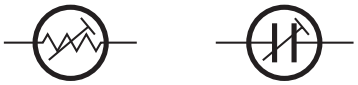
The arrows indicate the signal path as follows.

**NOTE : The arrow is DVC unique object.**




**6. Indication of the parts for adjustments**

The parts for the adjustments are surrounded with the circle as shown below.



**7. Indication of the parts not mounted on the circuit board**

"OPEN" is indicated by the parts not mounted on the circuit board.

## CIRCUIT BOARD NOTES

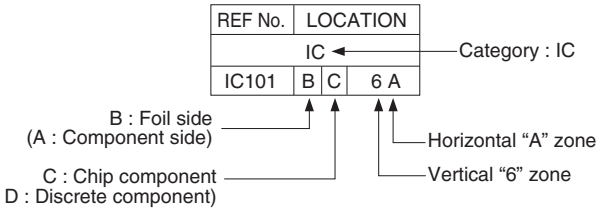
**1. Foil and Component sides**

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

rts location are indicated by guide scale on the circuit board.

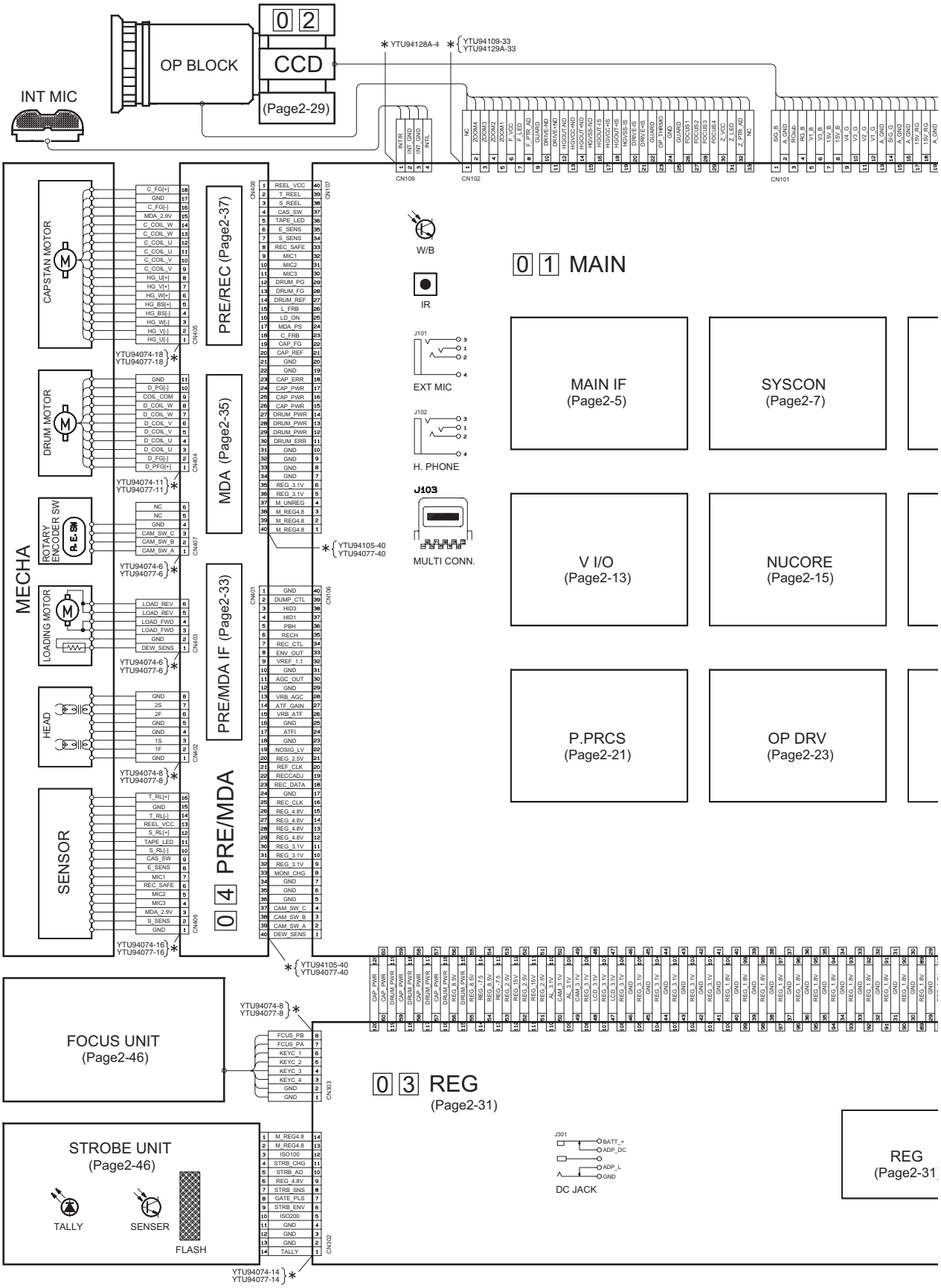
**2. Parts location guides**

Parts location are indicated by guide scale on the circuit board.

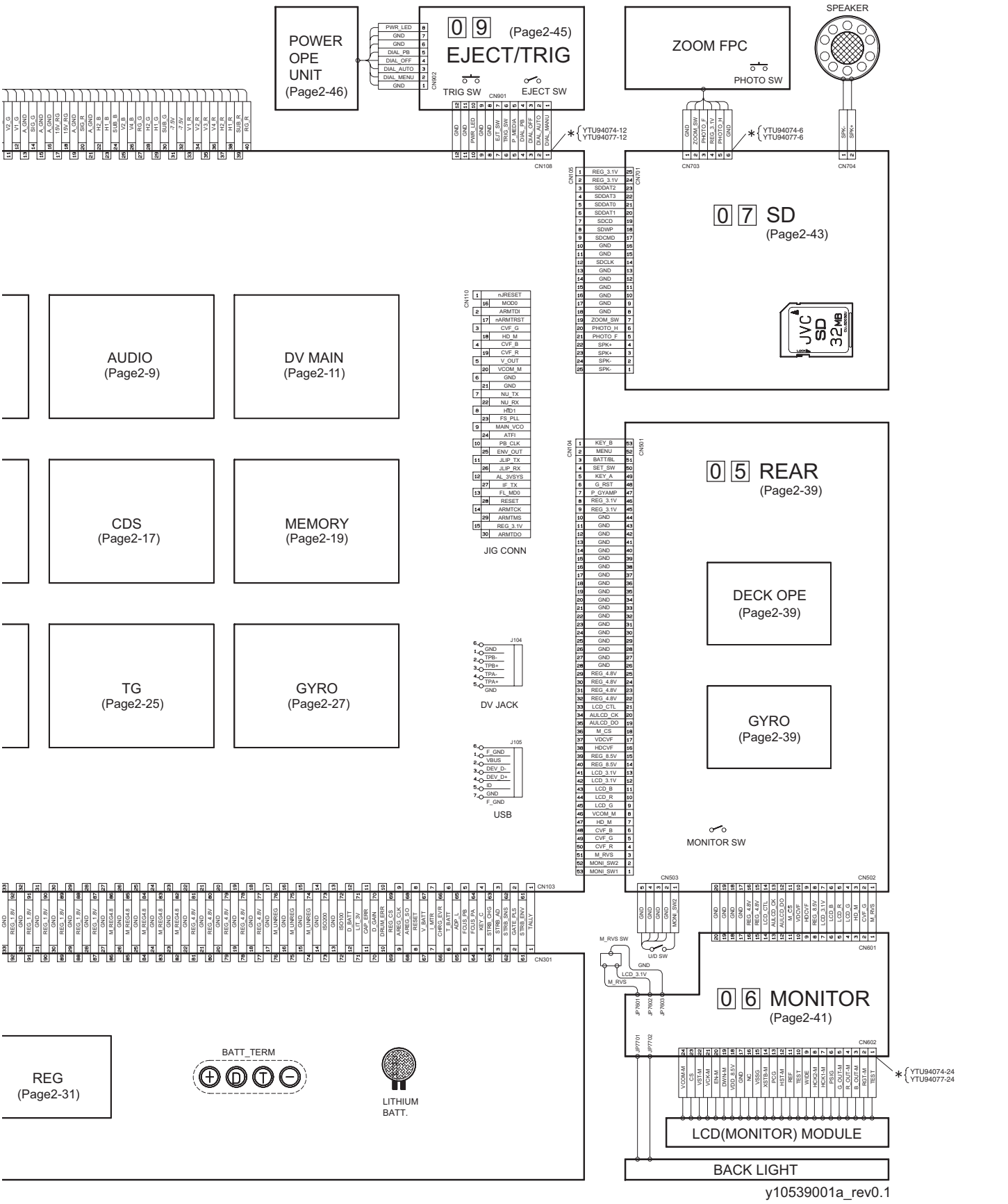



**Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).**

## ■ BOARD INTERCONNECTION

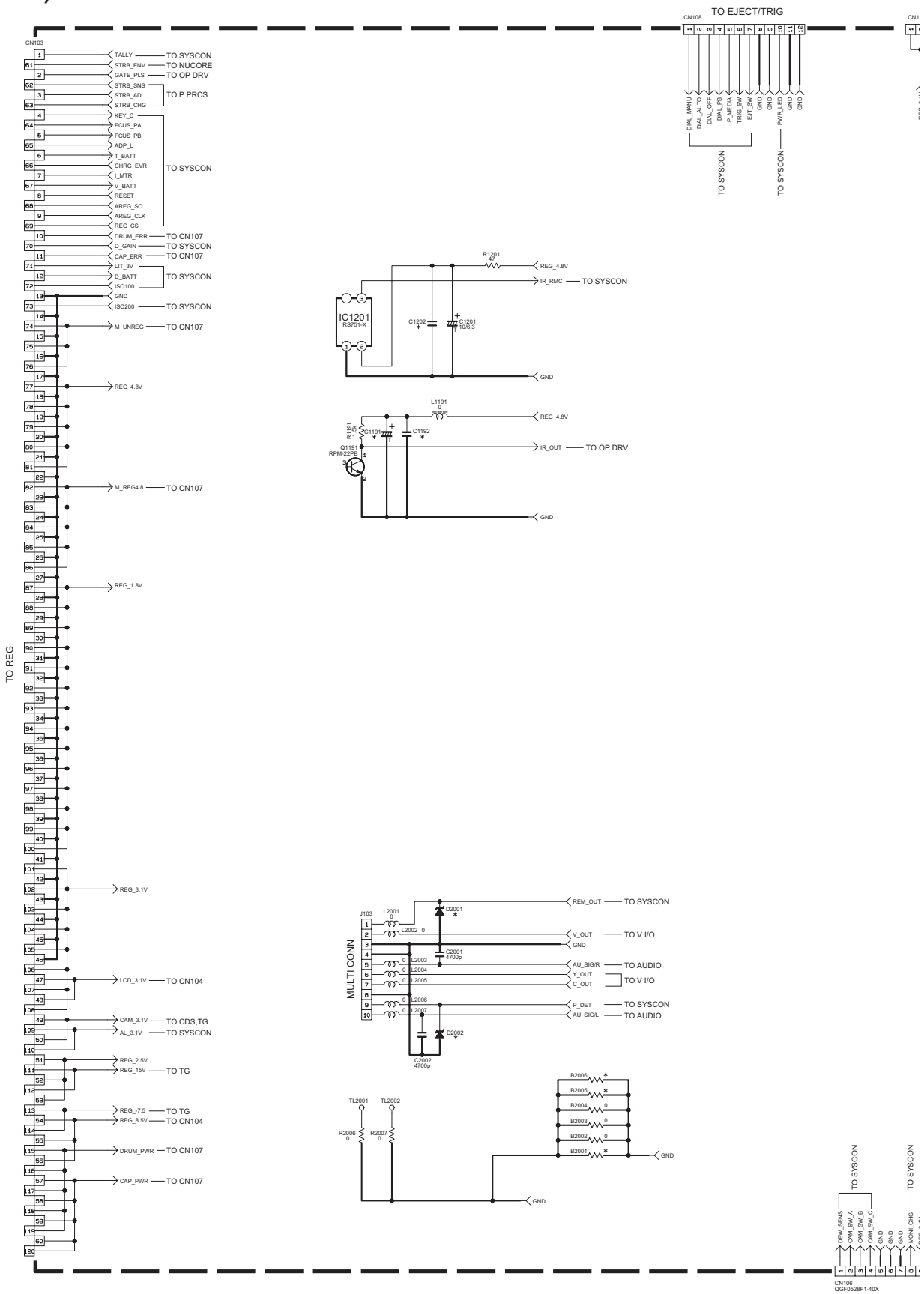



NOTE: The number of patch cords (∗) are indicated by interconnected.

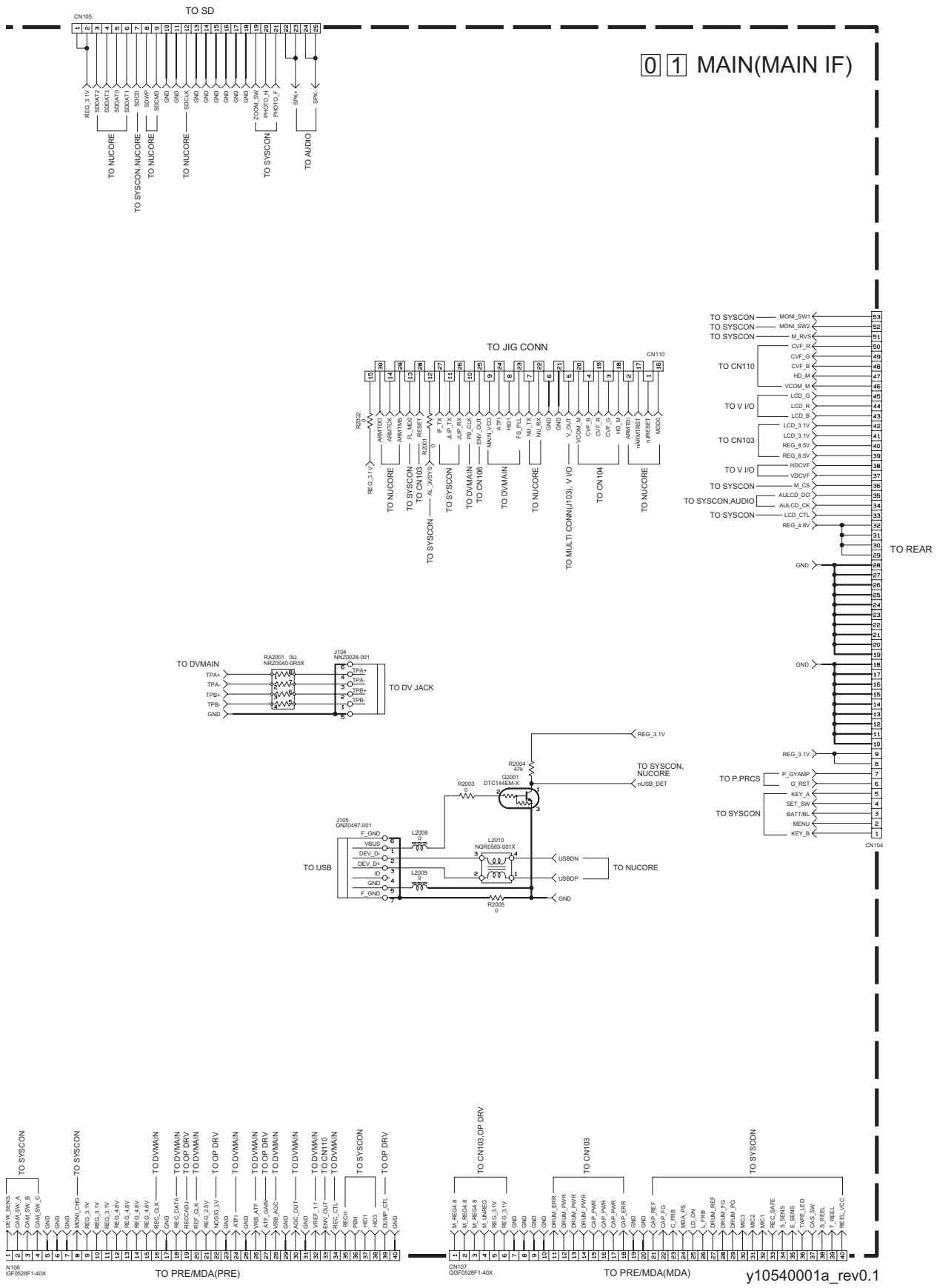



y10539001a_rev0.1

## ■ MAIN(MAIN IF) SCHEMATIC DIAGRAM

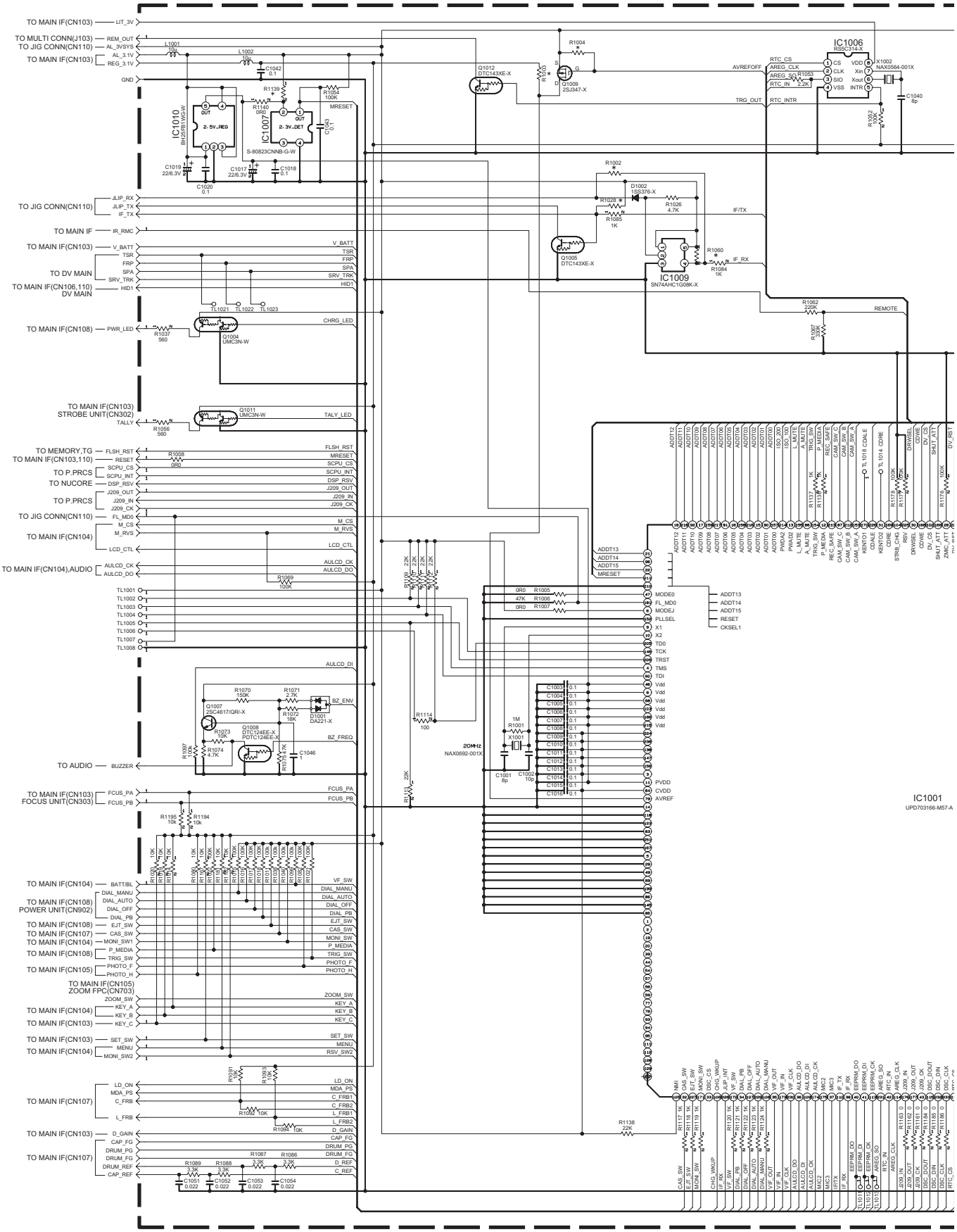



NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.

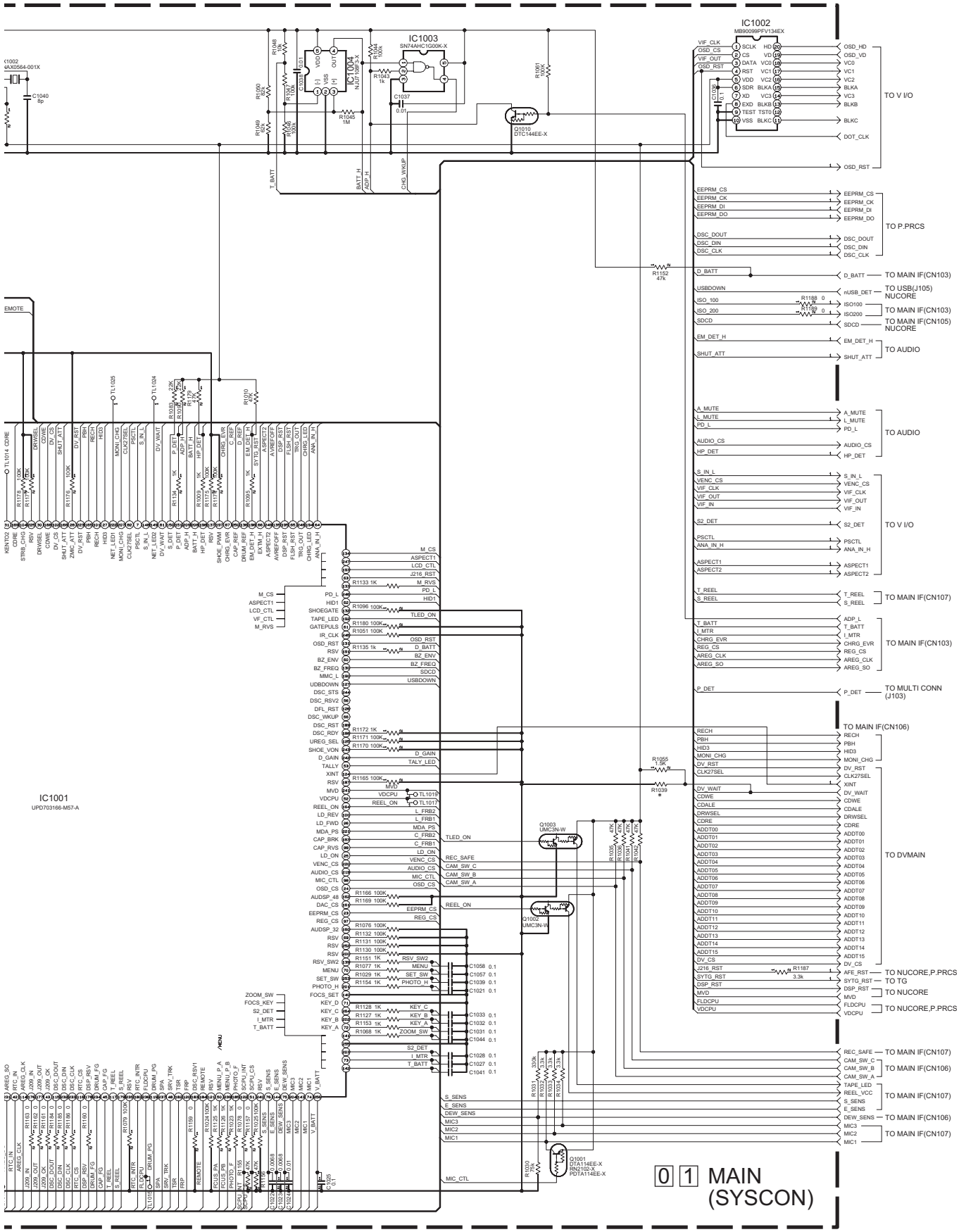

0 1 MAIN(MAIN IF)
TO SD
CN105
TO NUCORE
TO SYSCON,NUCORE
TO NUCORE
TO NUCORE
TO SYSCON
TO AUDIO
TO JIG CONN
CN110
TO SYSCON
TO SYSCON
TO SYSCON
TO CN110
TO V I/O
TO CN103
TO V I/O
TO SYSCON
TO SYSCON,AUDIO
TO SYSCON
TO REAR
CN104
TO P.PRCS
TO SYSCON
TO DVMAIN
TO DV JACK
TO USB
TO NUCORE
TO SYSCON,
NUCORE
TO SYSCON
TO MULTI CONN(J103), V I/O
TO CN104
TO NUCORE
TO SYSCON
TO OP DRV
TO DVMAIN
TO DVMAIN
TO OP DRV
TO DVMAIN
TO OP DRV
TO DVMAIN
TO DVMAIN
TO DVMAIN
TO CN110
TO DVMAIN
TO SYSCON
TO OP DRV
TO PRE/MDA(PRE)
TO CN103,OP DRV
TO CN103
TO SYSCON
TO PRE/MDA(MDA)
y10540001a_rev0.1

ONS".

# ■ MAIN(SYSCON) SCHEMATIC DIAGRAM



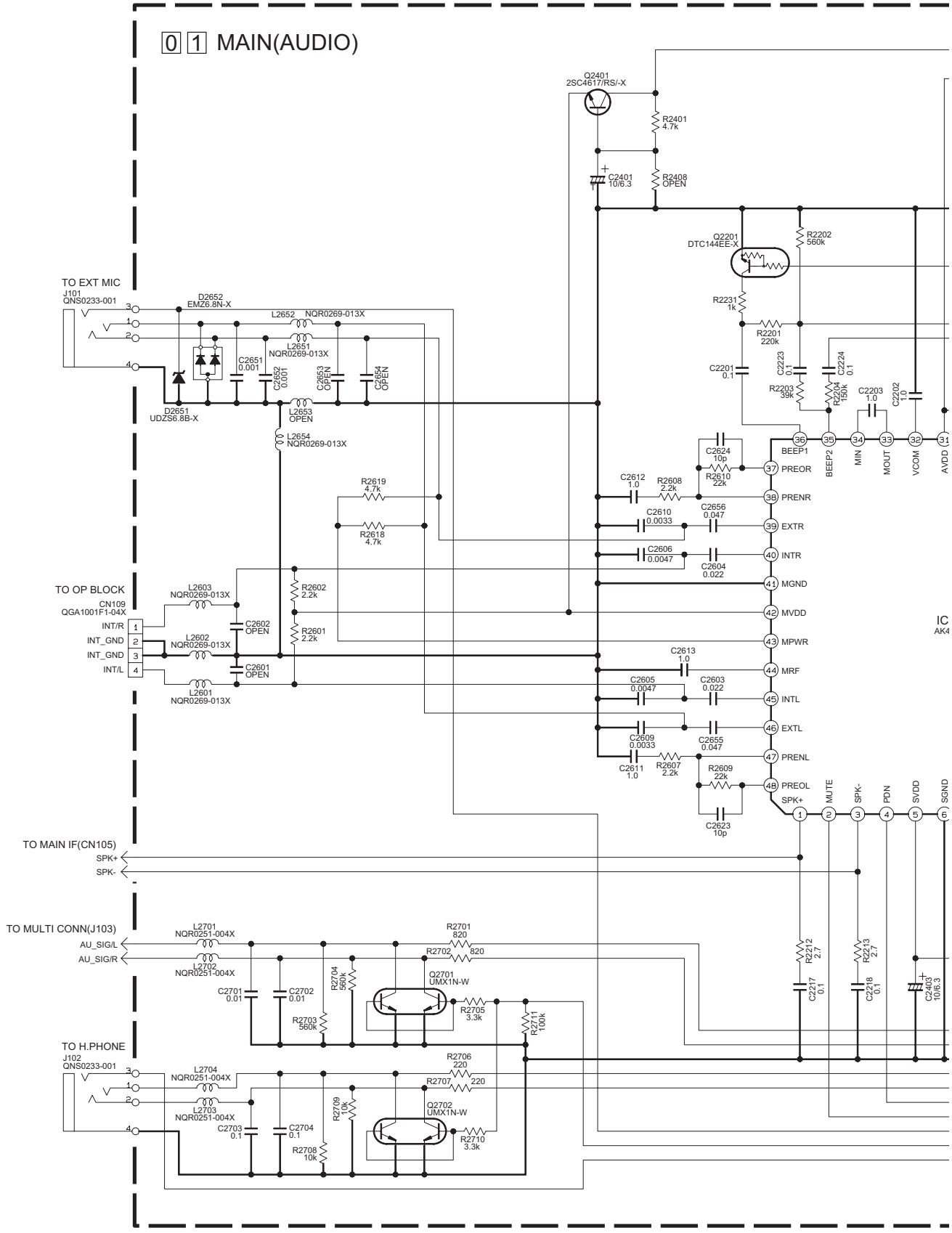
NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



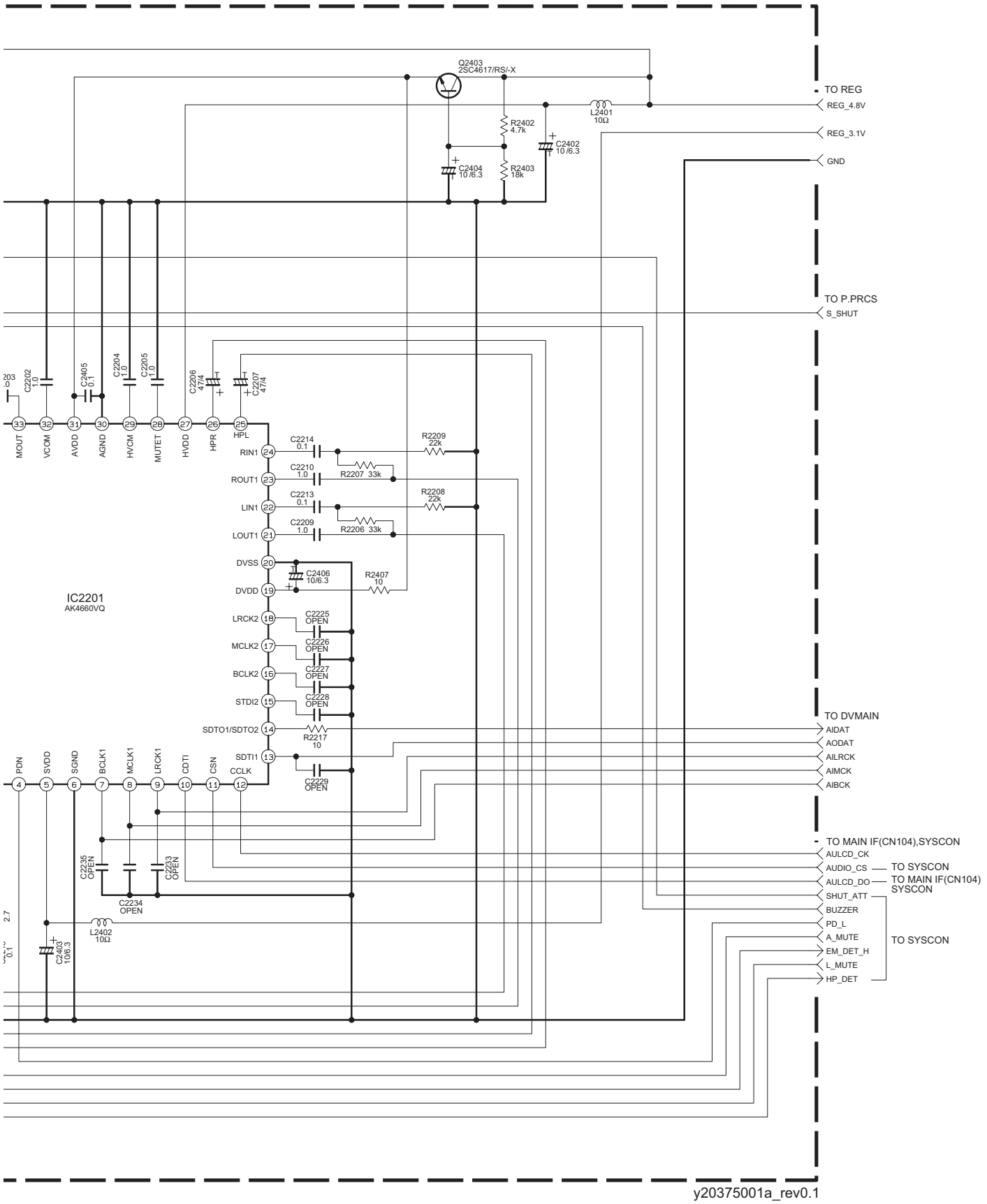

ONS".

y10542001a_rev0.1

## ■ MAIN(AUDIO) SCHEMATIC DIAGRAM



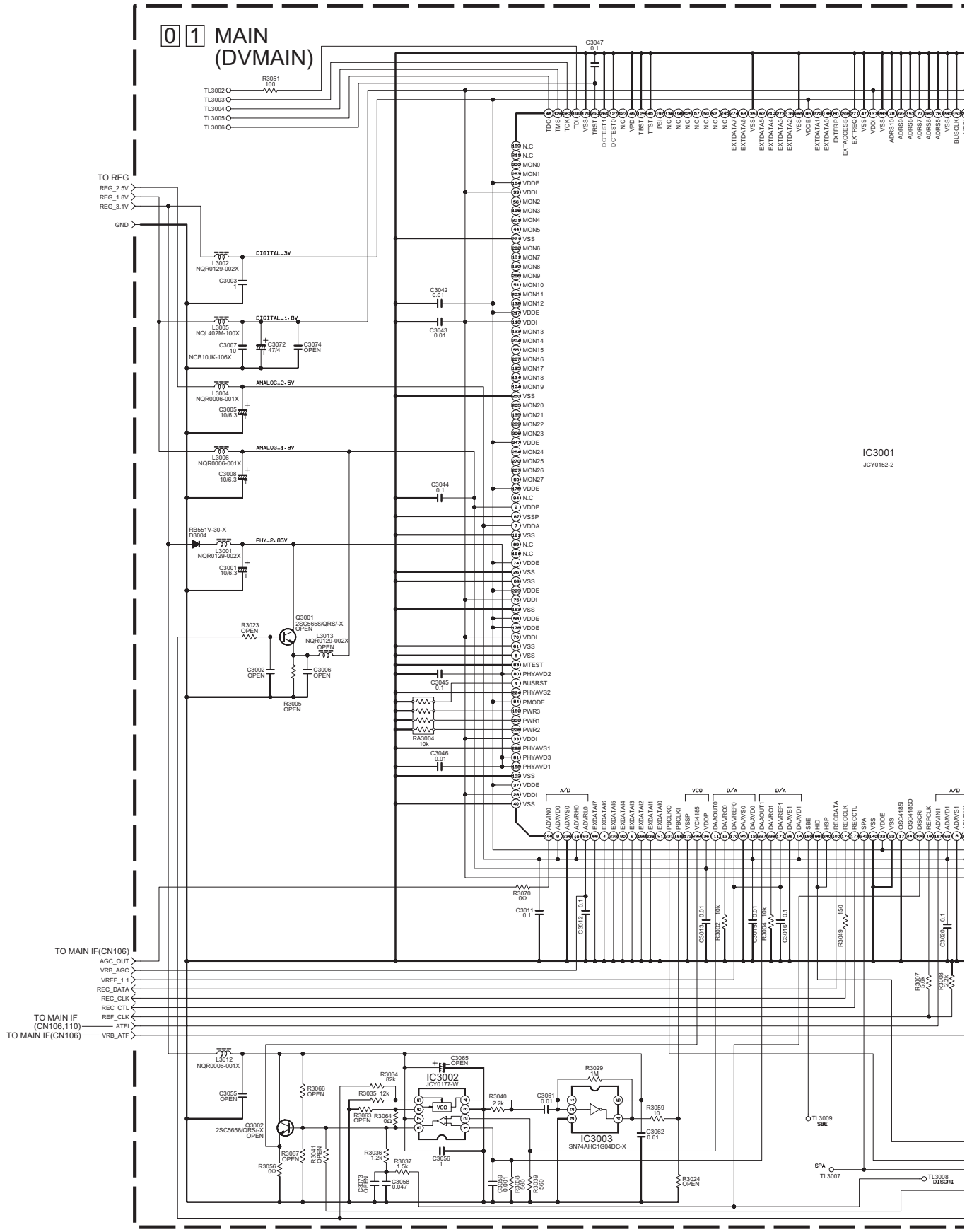

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



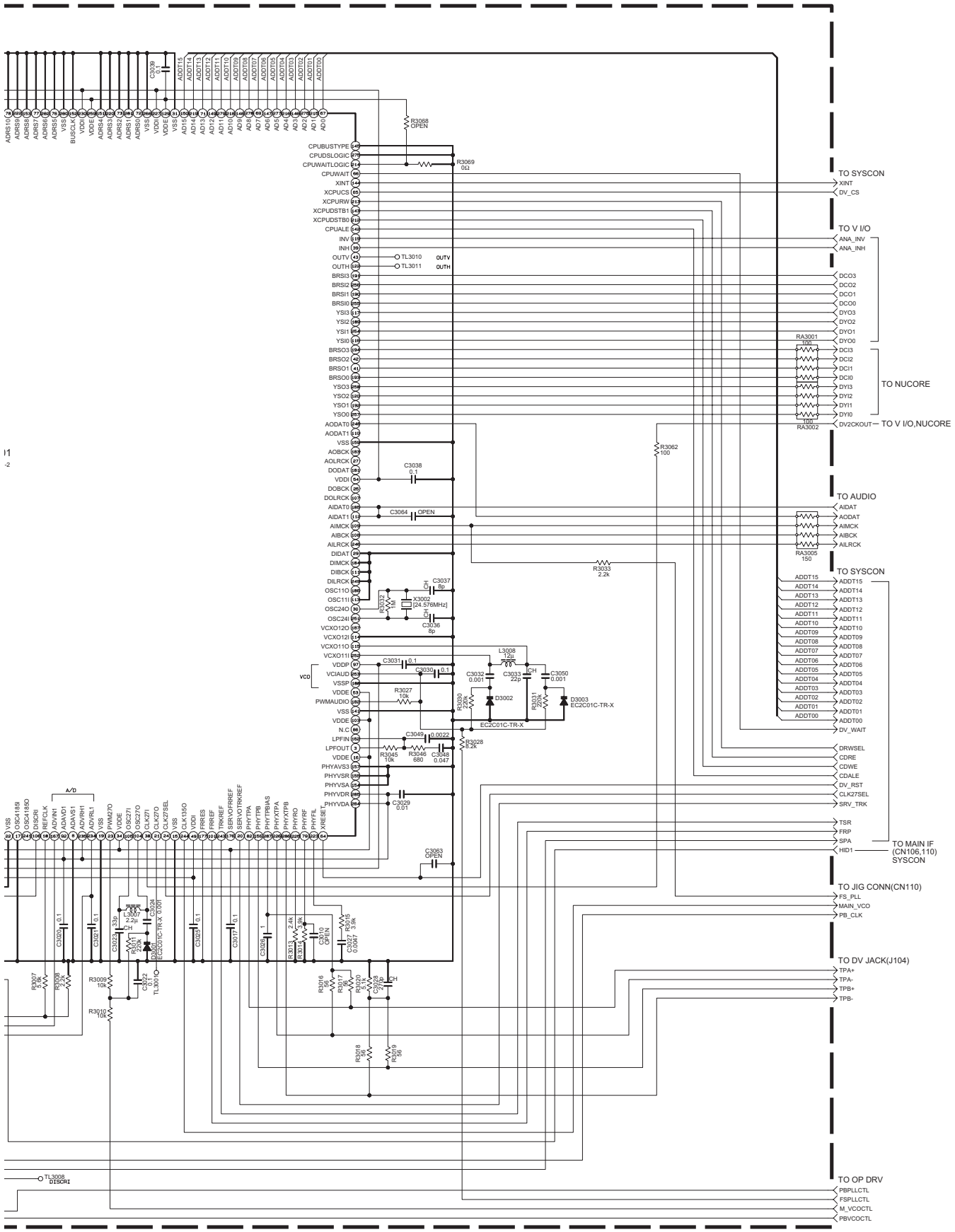

y20375001a_rev0.1

ONS".

## ■ MAIN(DVMAIN) SCHEMATIC DIAGRAM



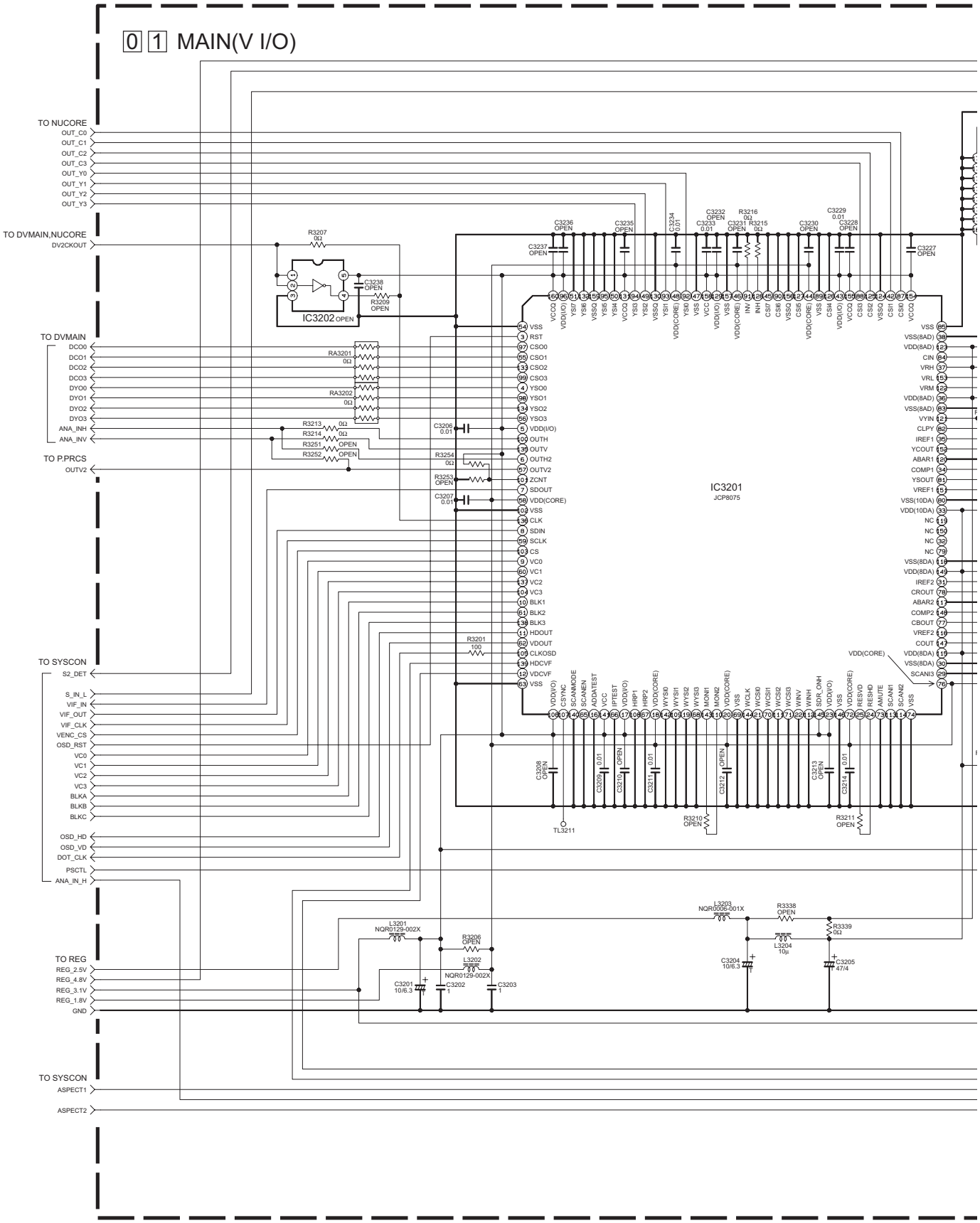

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



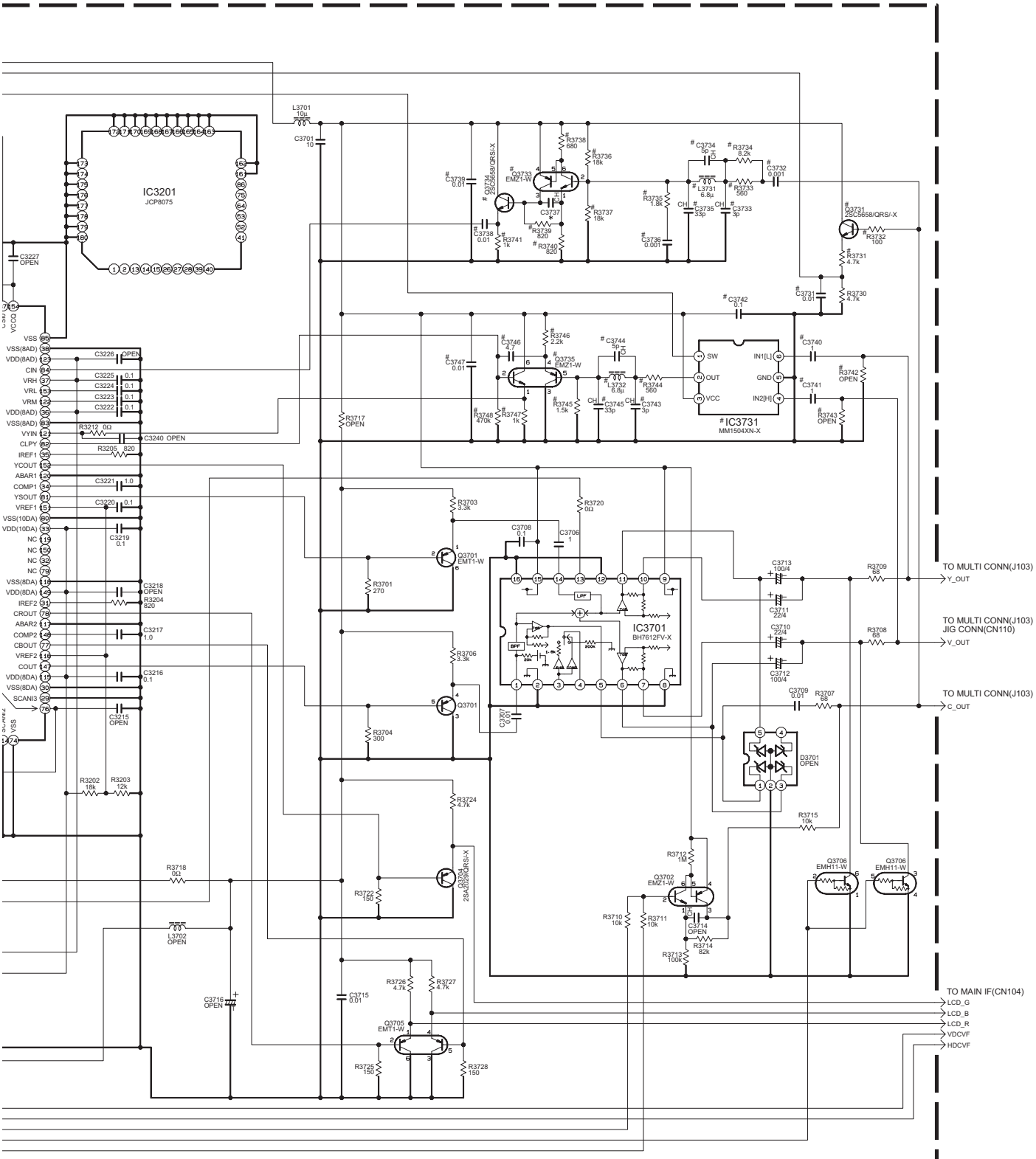

ONS".

y10543001a_rev0.1

## ■ MAIN(V I/O) SCHEMATIC DIAGRAM




NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



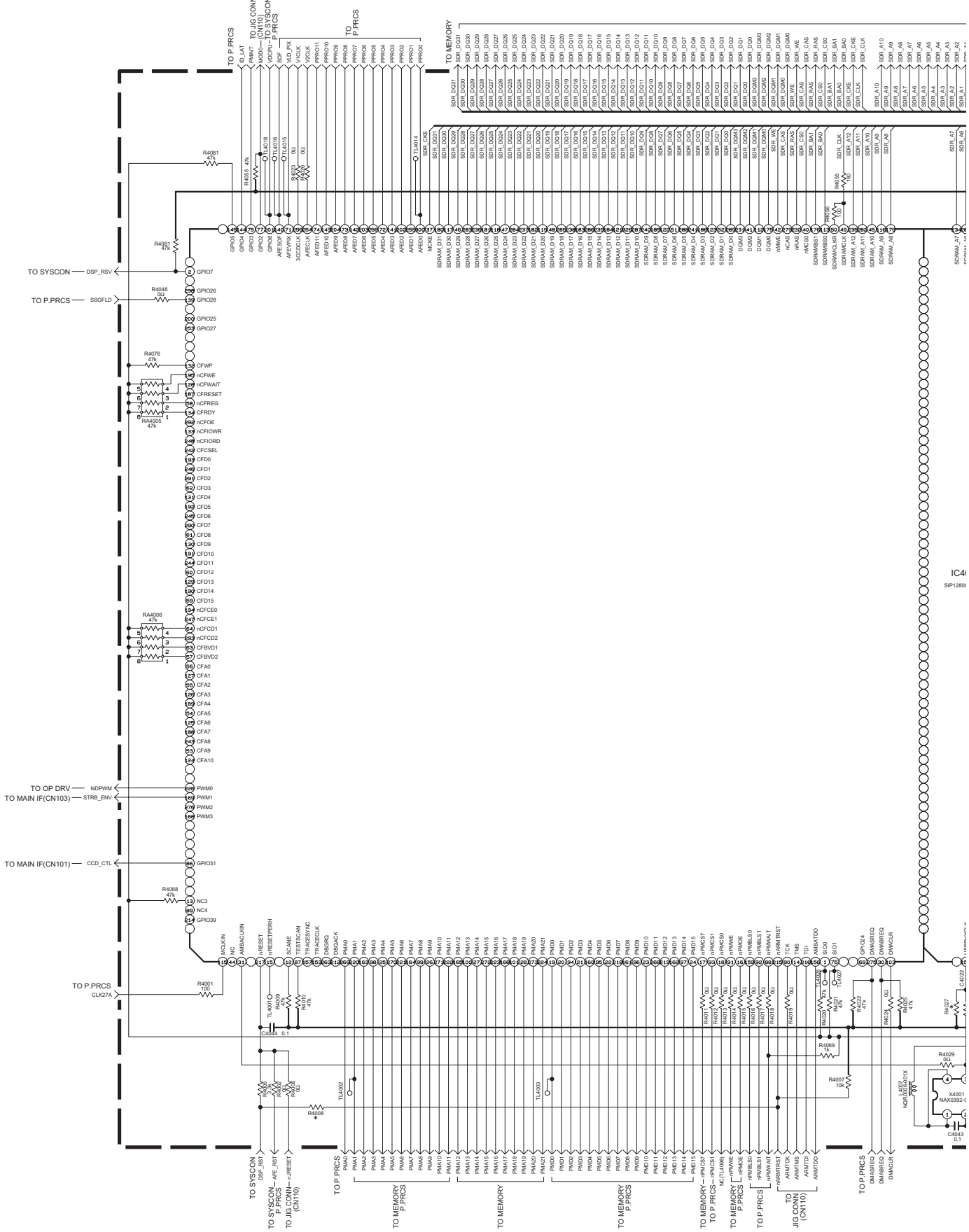

#: EXCHANGE PARTS LIST

| | WITH ANALOG INPUT | WITHOUT ANALOG INPUT |
|---|---|---|
| IC3731 | WARE | NO WARE |
| Q3731, Q3733~Q3735 | WARE | NO WARE |
| L3731, L3732 | WARE | NO WARE |
| R3731~R3748 | WARE | NO WARE |
| C3731~C3736, C3738~C3747 | WARE | NO WARE |
| R3212 | WARE | NO WARE |

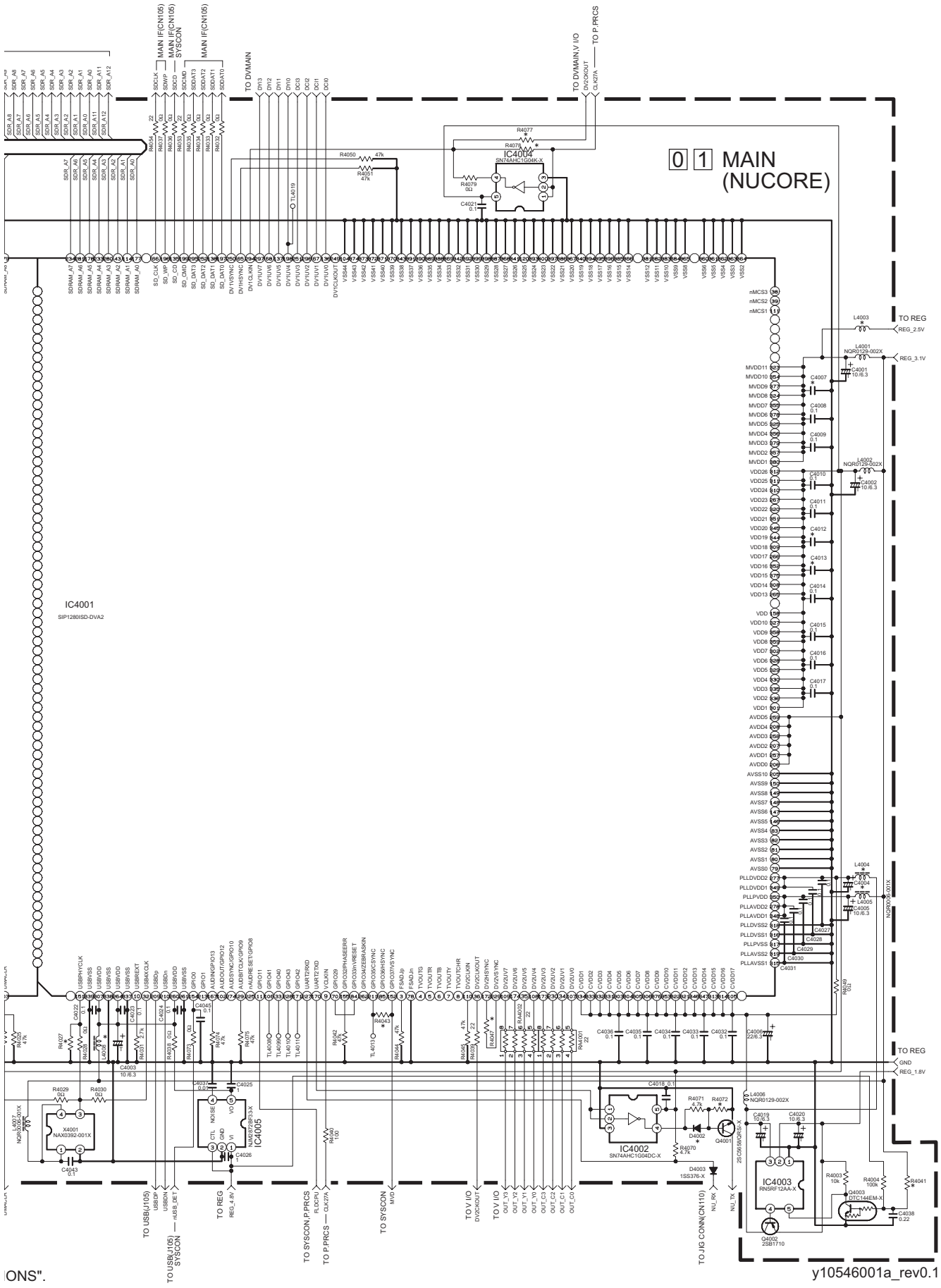
ONS".

y10544001a_rev0.1

# ■ MAIN(NUCORE) SCHEMATIC DIAGRAM

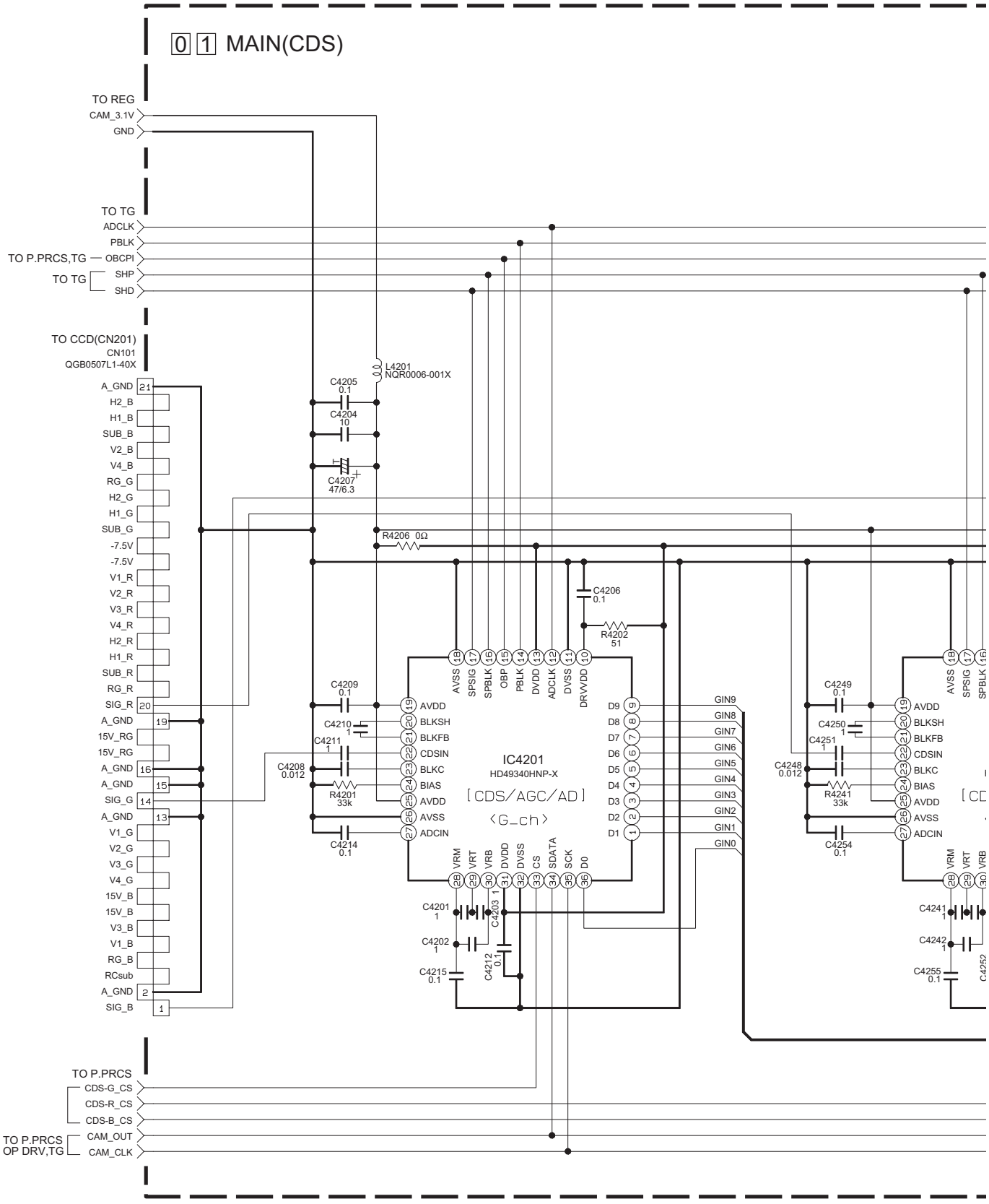


NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.

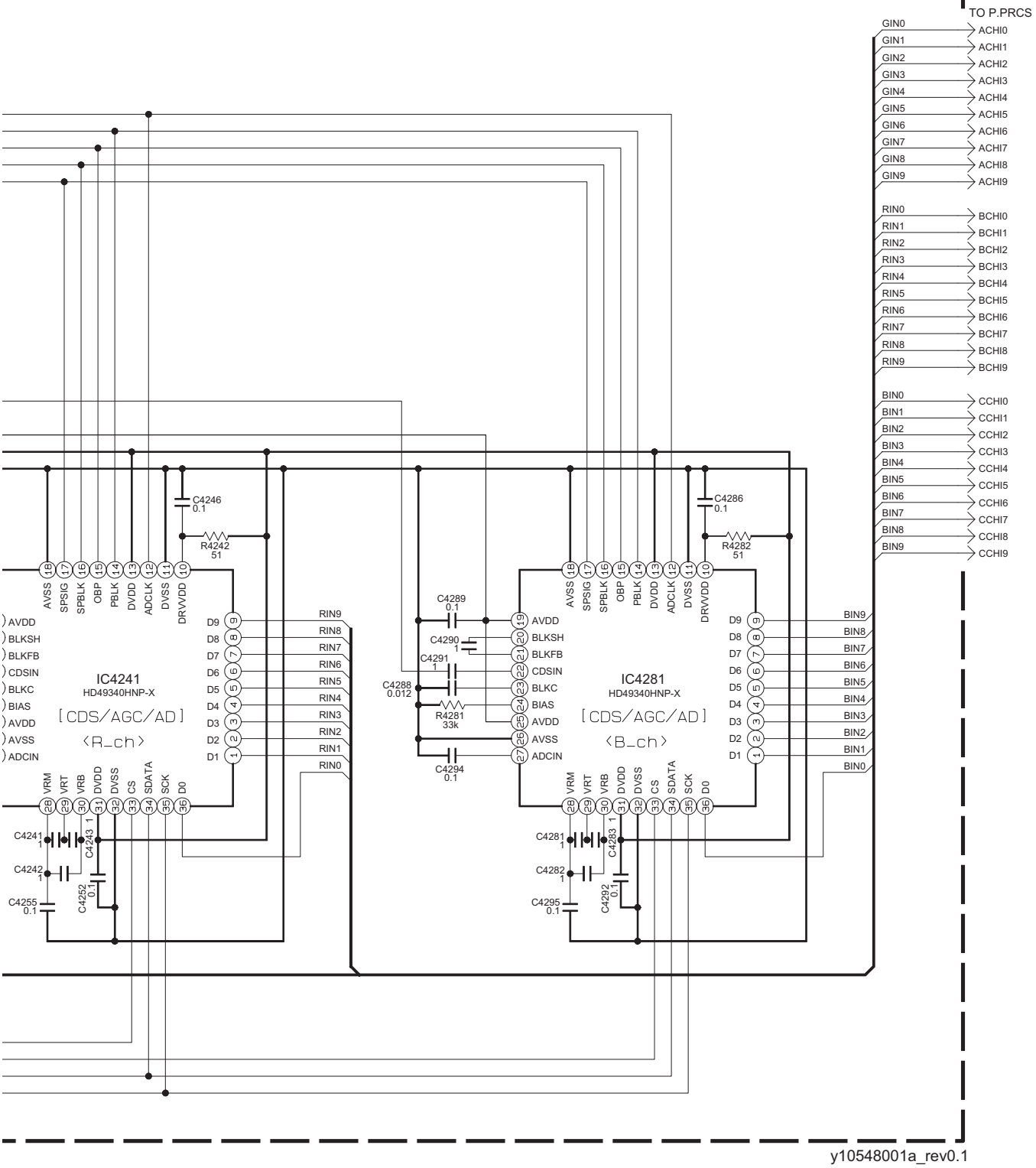

0 1 MAIN (NUCORE)
IC4001
SIP1280ISD-DVA2
IC4004
SN74AHC1G04K-X
IC4002
SN74AHC1G04DC-X
IC4003
RN5RF12AA-X
IC4005
NJM2782F53-3-X
X4001
NAX0392-001X
TO REG
REG_2.5V
REG_3.1V
REG_1.8V
TO DVMAIN
TO DVMAIN,V I/O
TO P.PRCS
MAIN IF(CN105) SDCLK
MAIN IF(CN105) SDWP
MAIN IF(CN105) SDCD
MAIN IF(CN105) SYSCON
TO USB(J105)
TO USB(J105) SYSCON
TO REG
TO SYSCON,P.PRCS
TO P.PRCS
TO SYSCON
TO V I/O
TO JIG CONN(CN110)
y10546001a_rev0.1

ONS".

## ■ MAIN(CDS) SCHEMATIC DIAGRAM



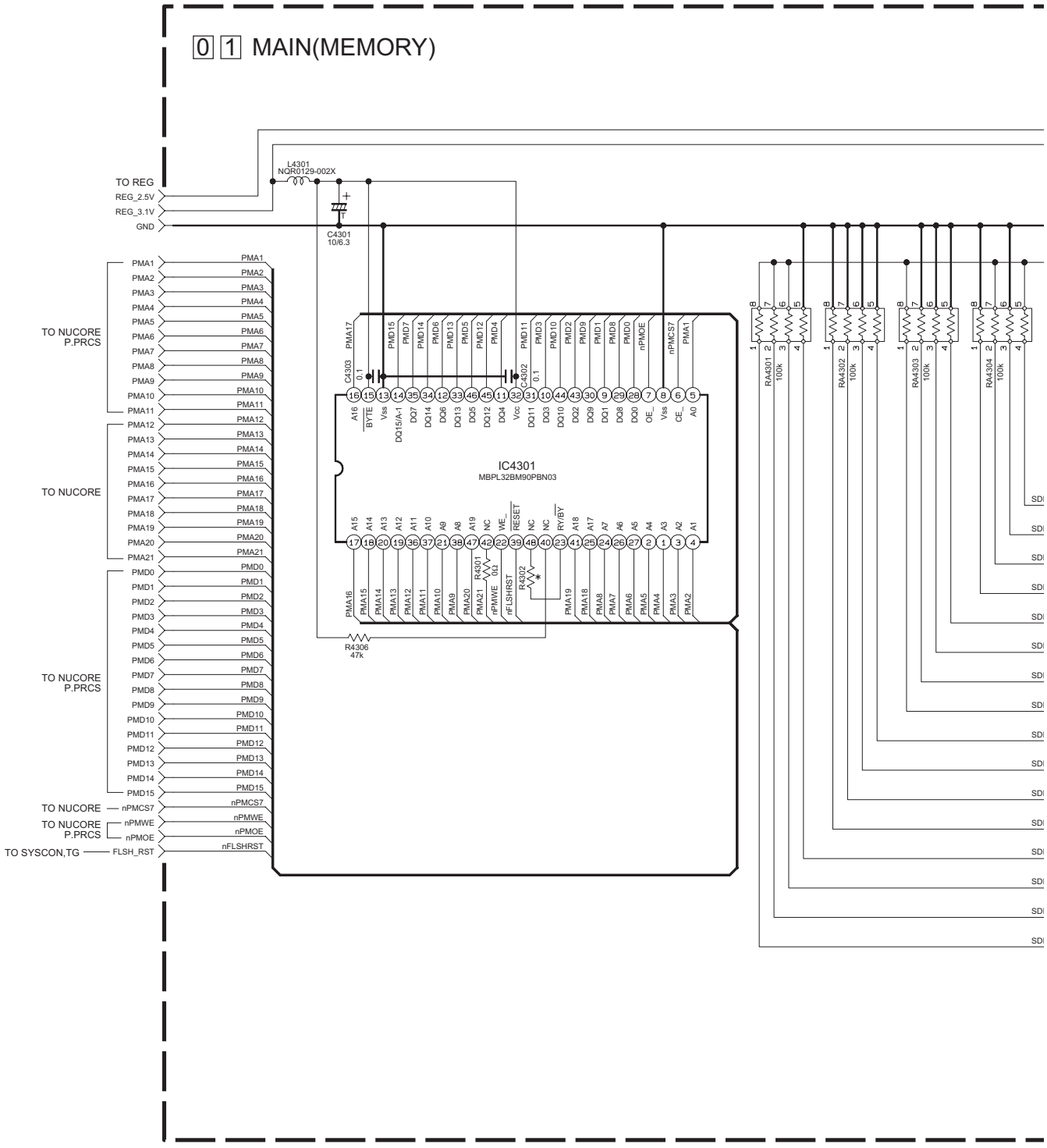

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



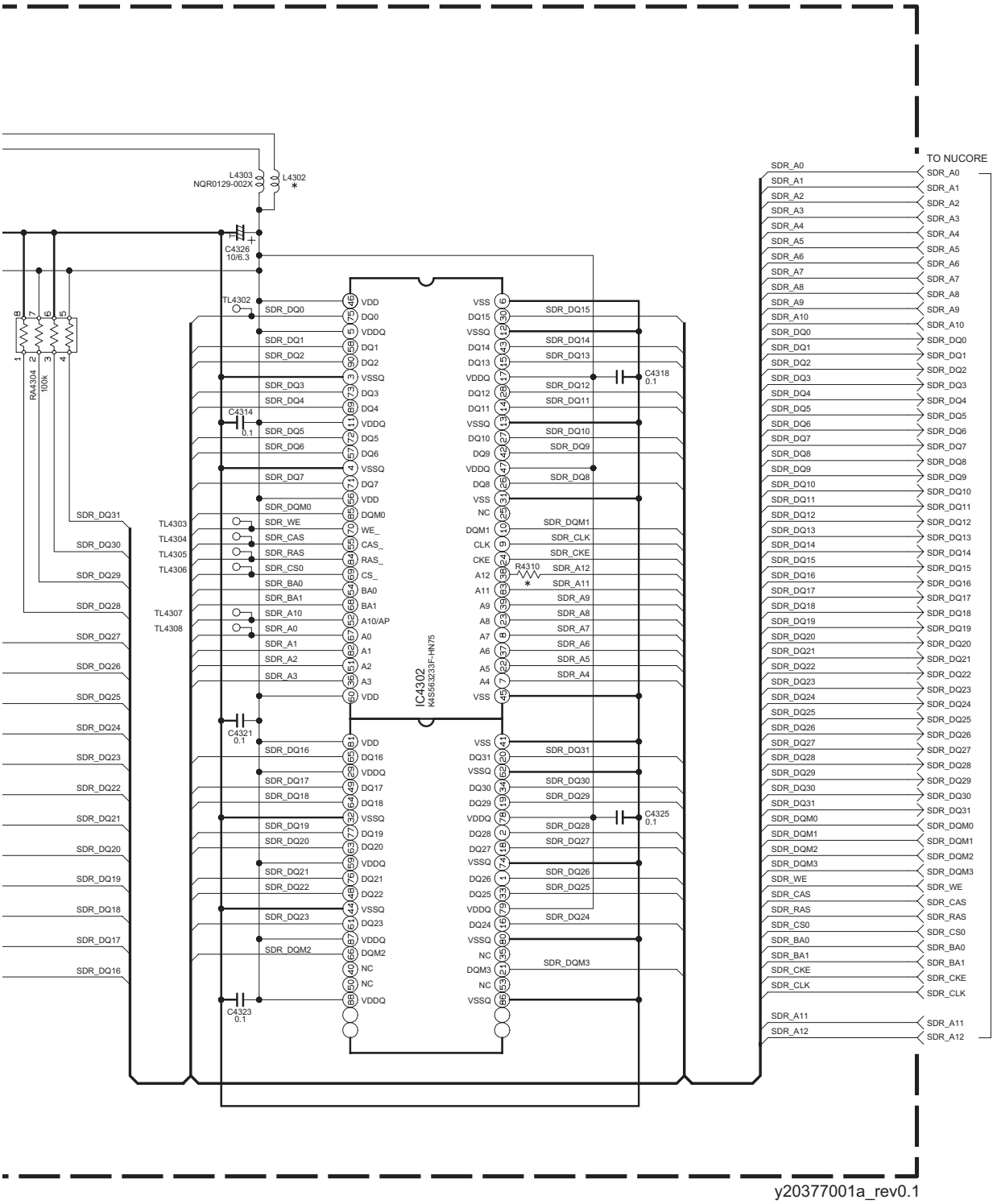

y10548001a_rev0.1

ONS".

## ■ MAIN(MEMORY) SCHEMATIC DIAGRAM



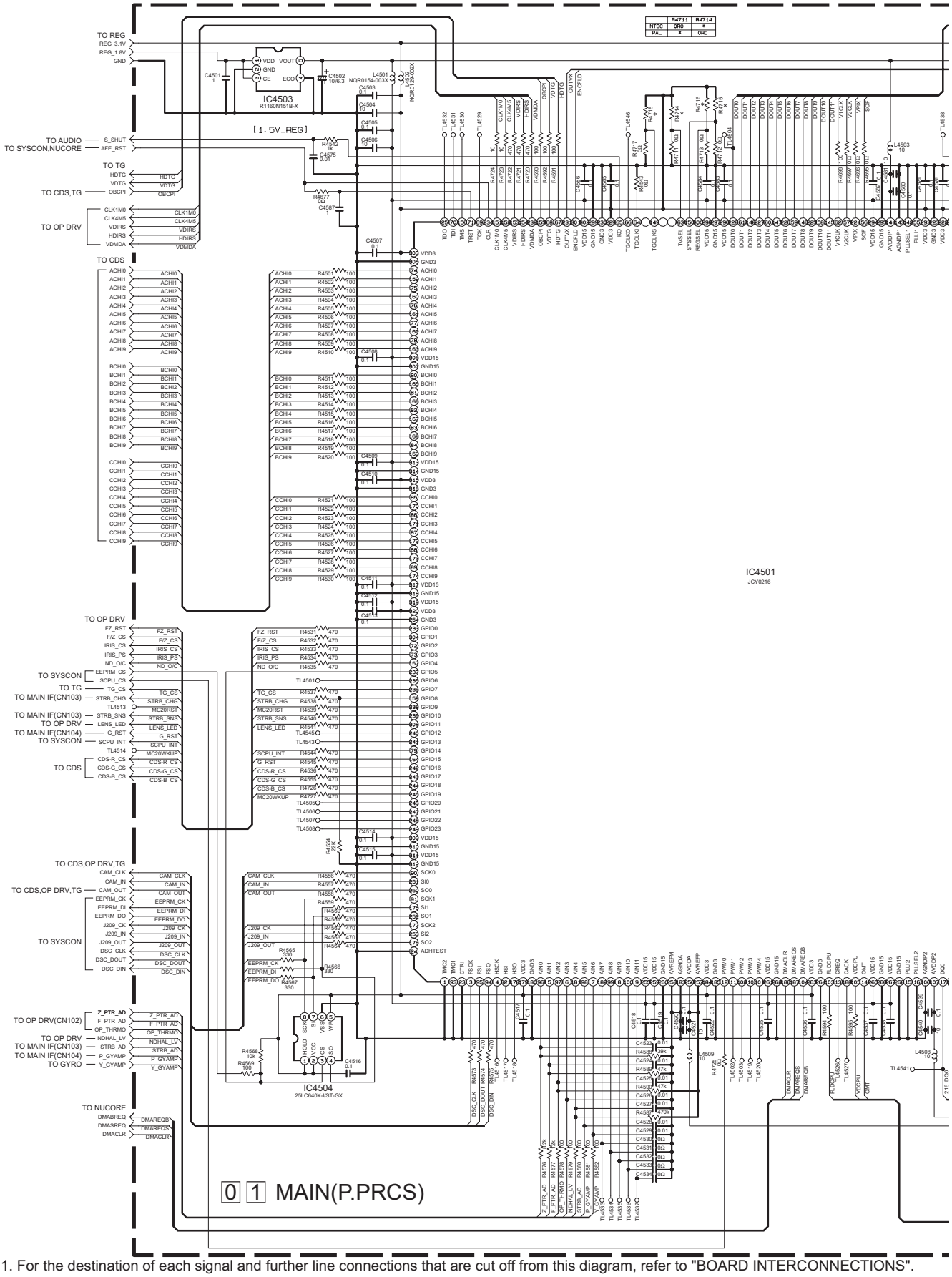

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



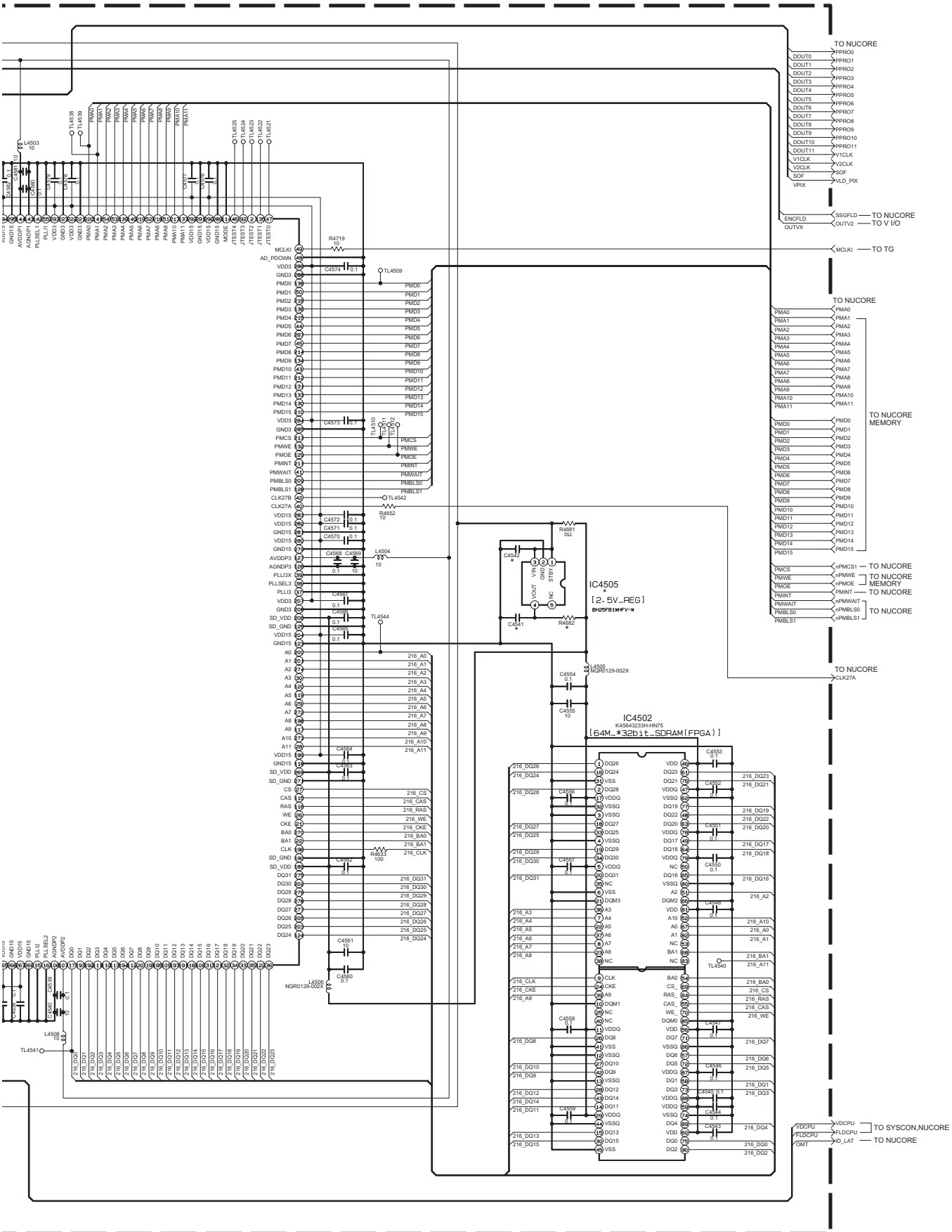

y20377001a_rev0.1

ONS".

## ■ MAIN(P.PRCS) SCHEMATIC DIAGRAM



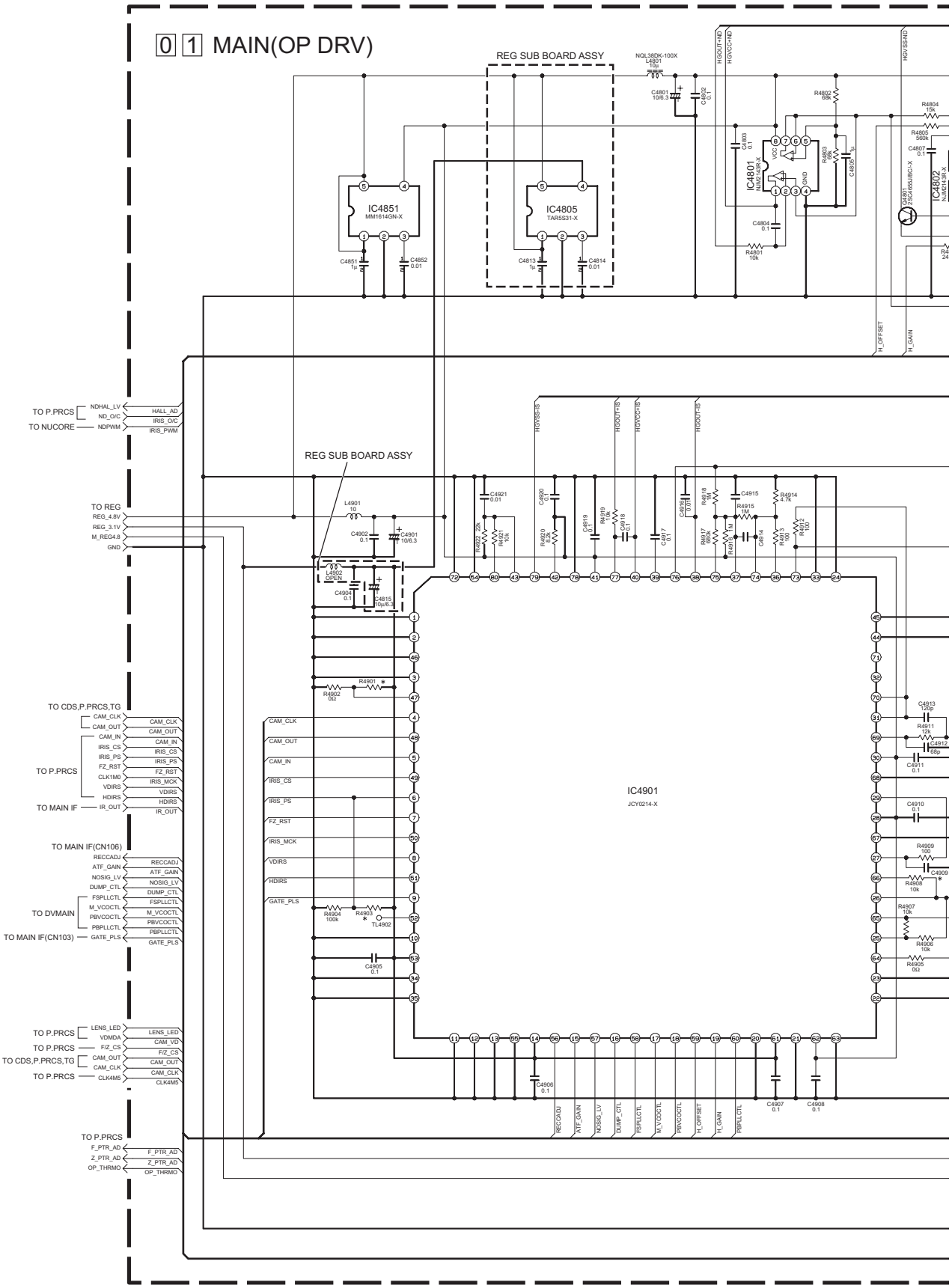

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



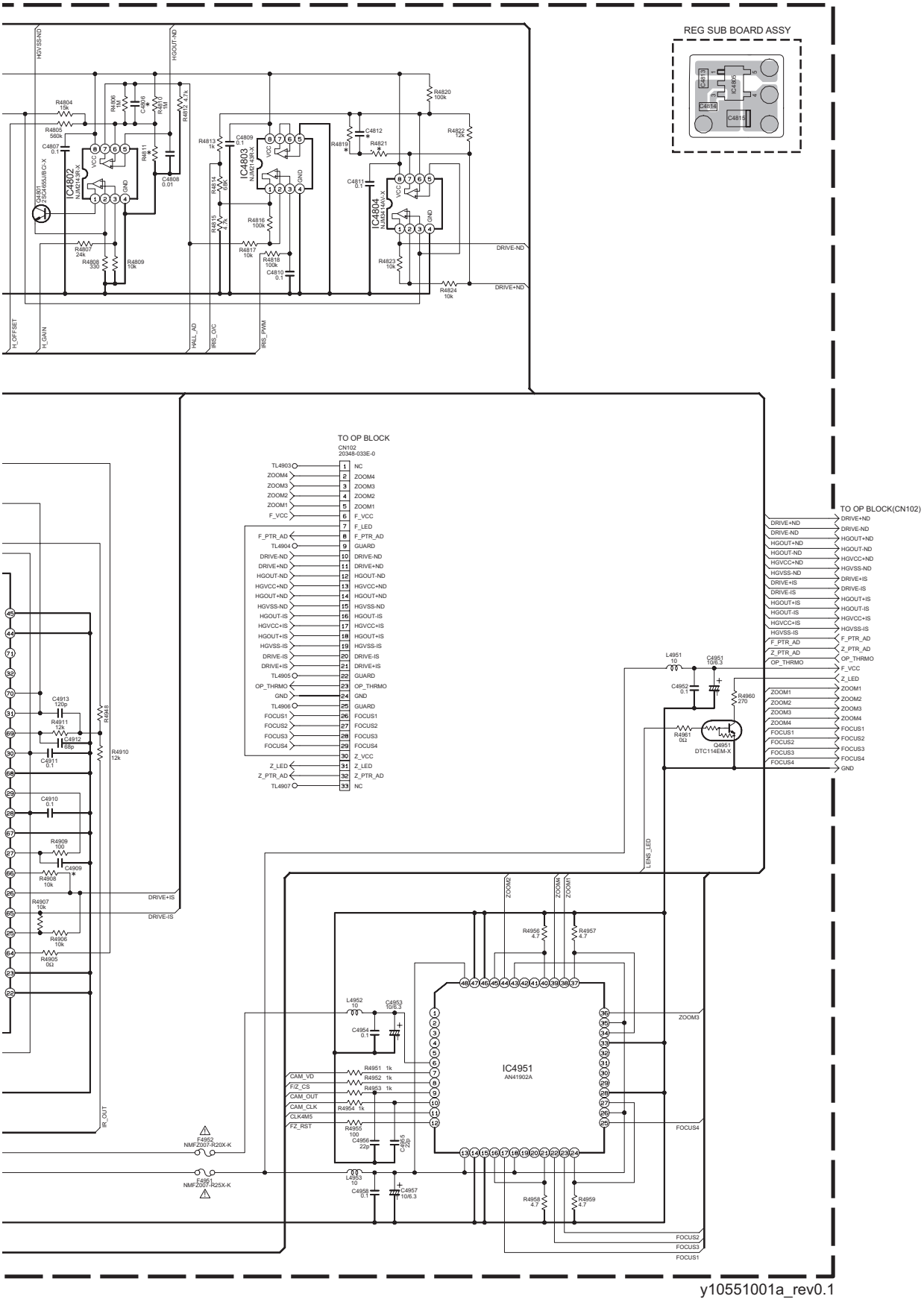

ONS".

lys10549-001a_rev0.1

## ■ MAIN(OP DRV) SCHEMATIC DIAGRAM



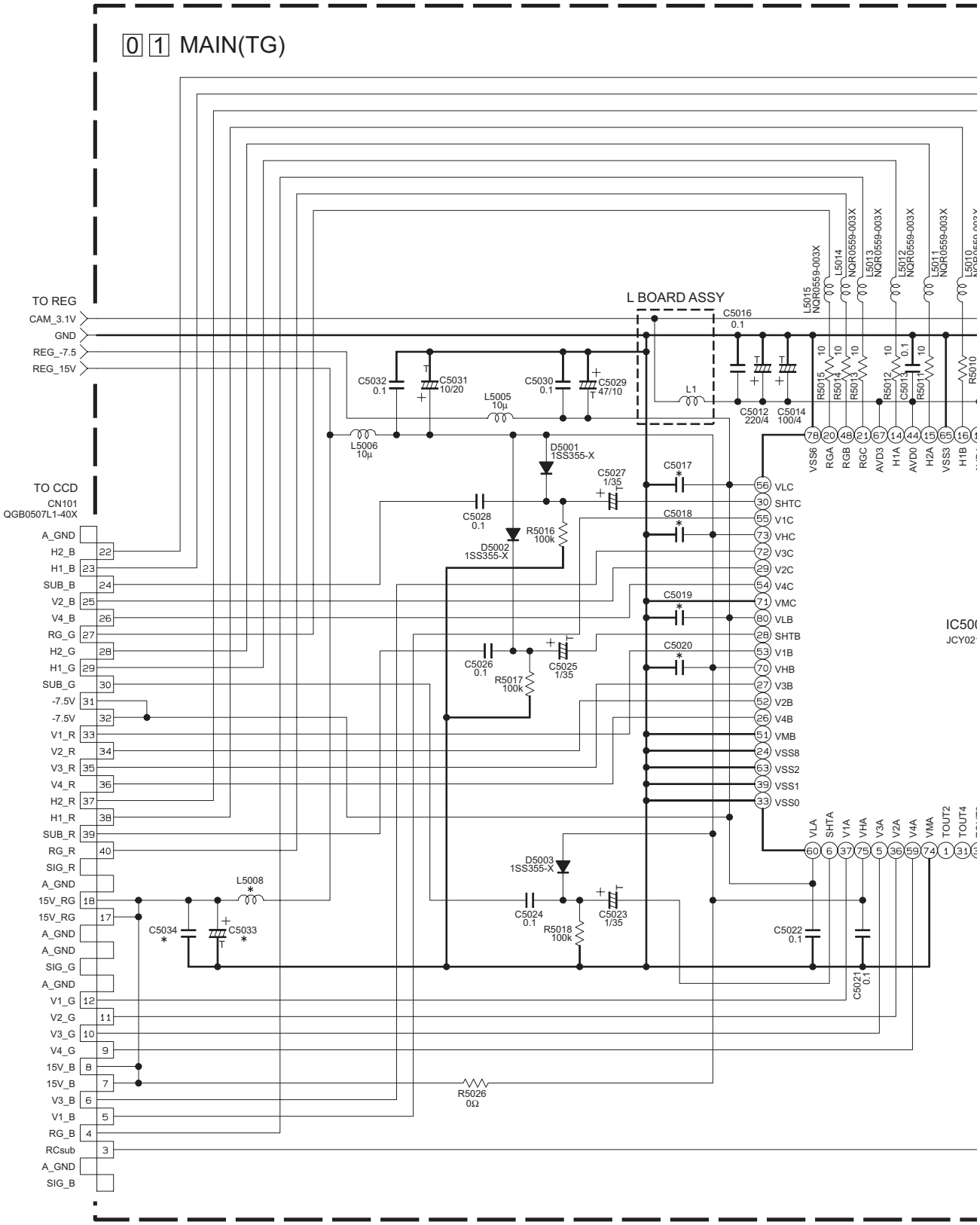

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



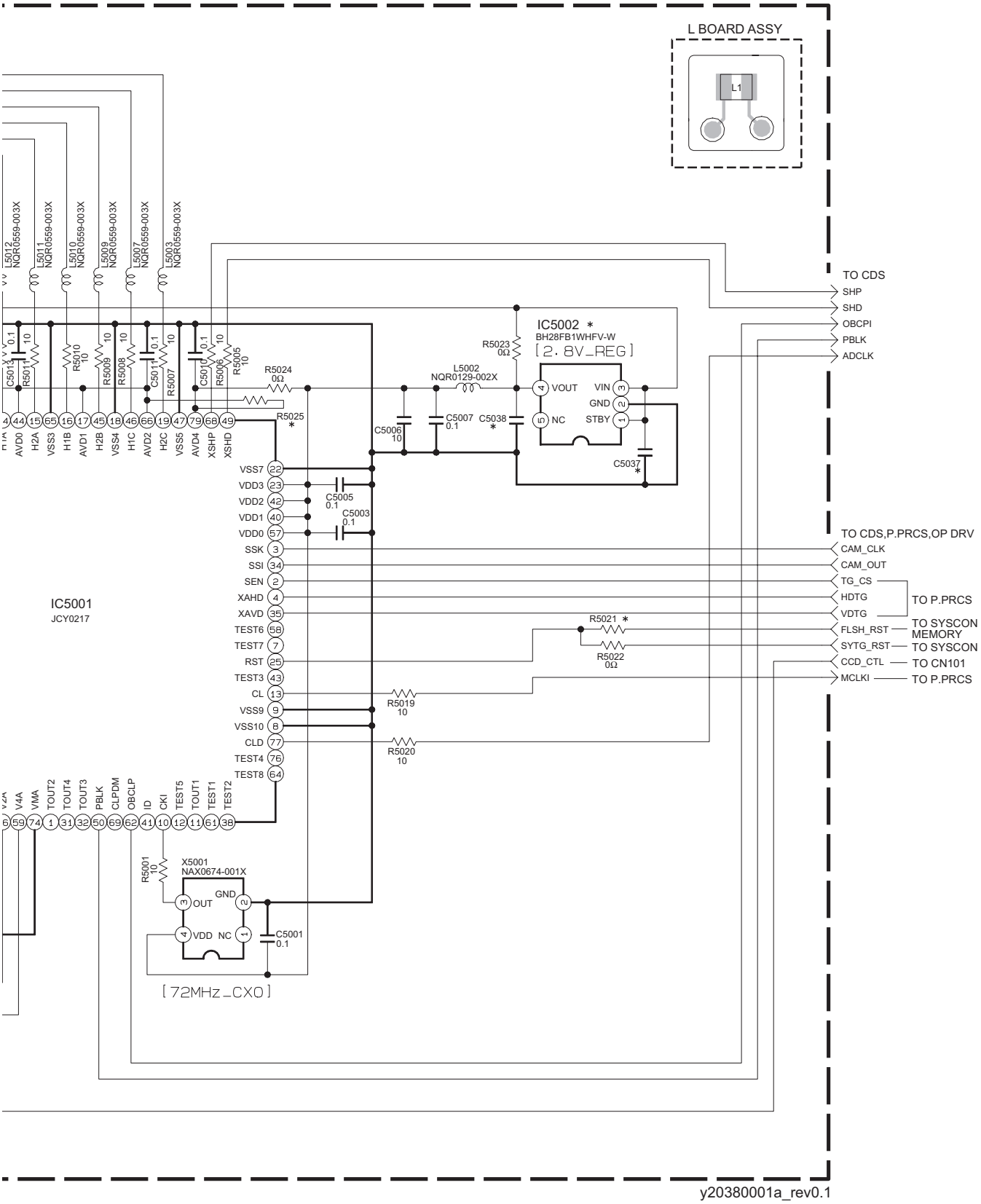

y10551001a_rev0.1

ONS".

## ■ MAIN(TG) SCHEMATIC DIAGRAM

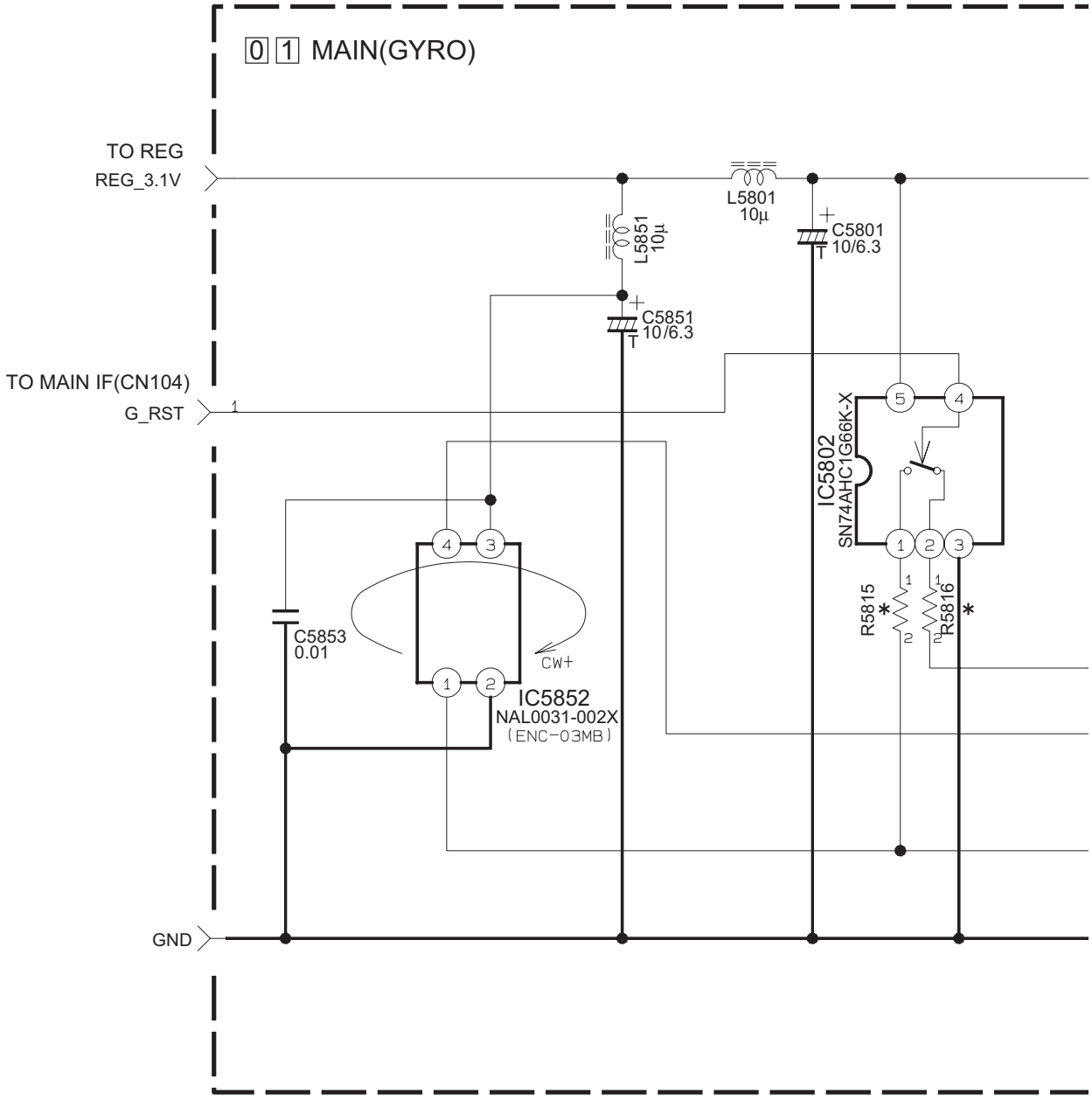



NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.

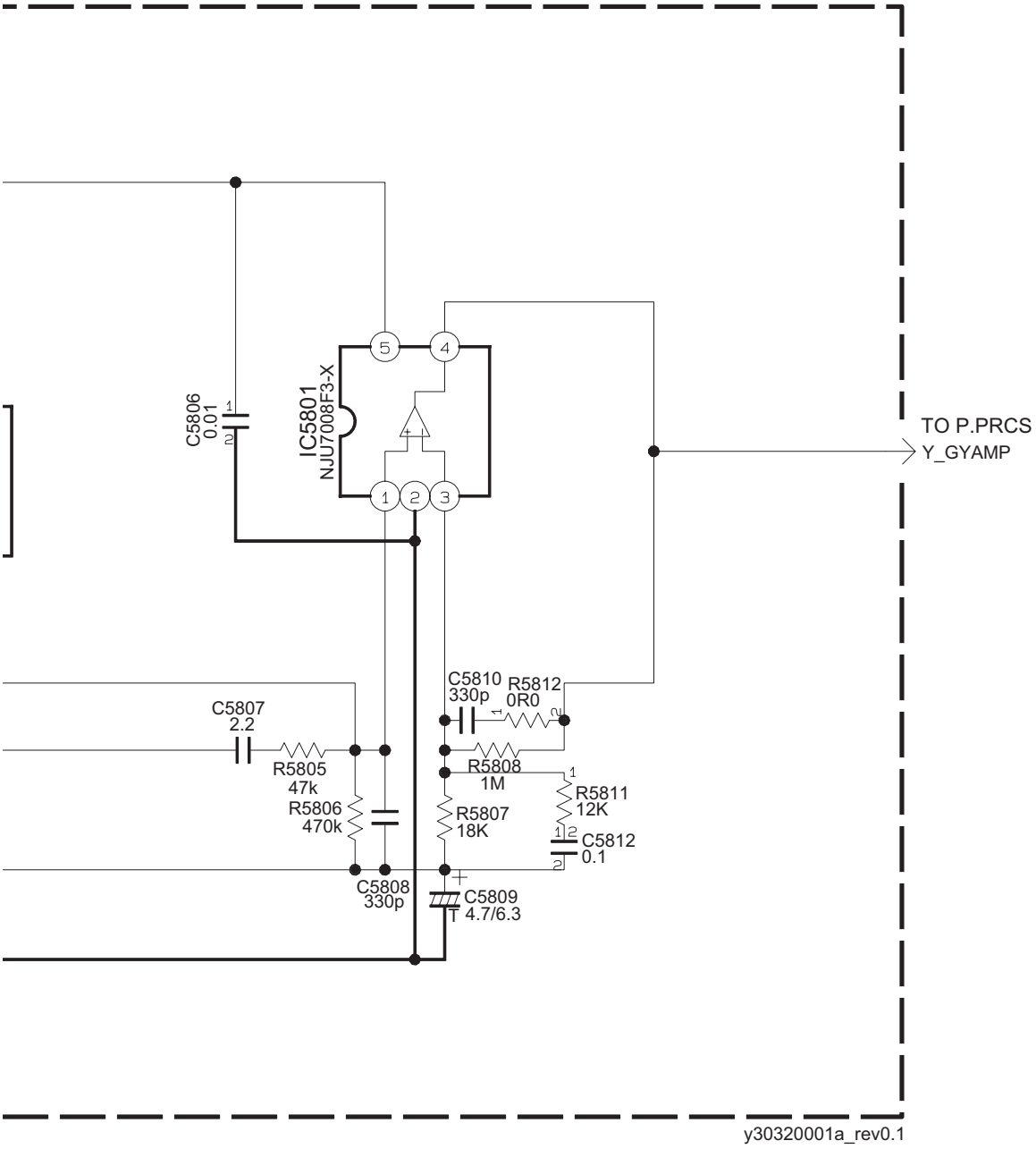

L BOARD ASSY
L1
IC5001
JCY0217
IC5002 *
BH28FB1WHFV-W
[2.8V_REG]
X5001
NAX0674-001X
[72MHz_CXO]
TO CDS
SHP
SHD
OBCPI
PBLK
ADCLK
TO CDS,P.PRCS,OP DRV
CAM_CLK
CAM_OUT
TG_CS
HDTG
VDTG
TO P.PRCS
FLSH_RST
TO SYSCON MEMORY
SYTG_RST
TO SYSCON
CCD_CTL
TO CN101
MCLKI
TO P.PRCS
y20380001a_rev0.1

ONS".

## ■ MAIN(GYRO) SCHEMATIC DIAGRAM

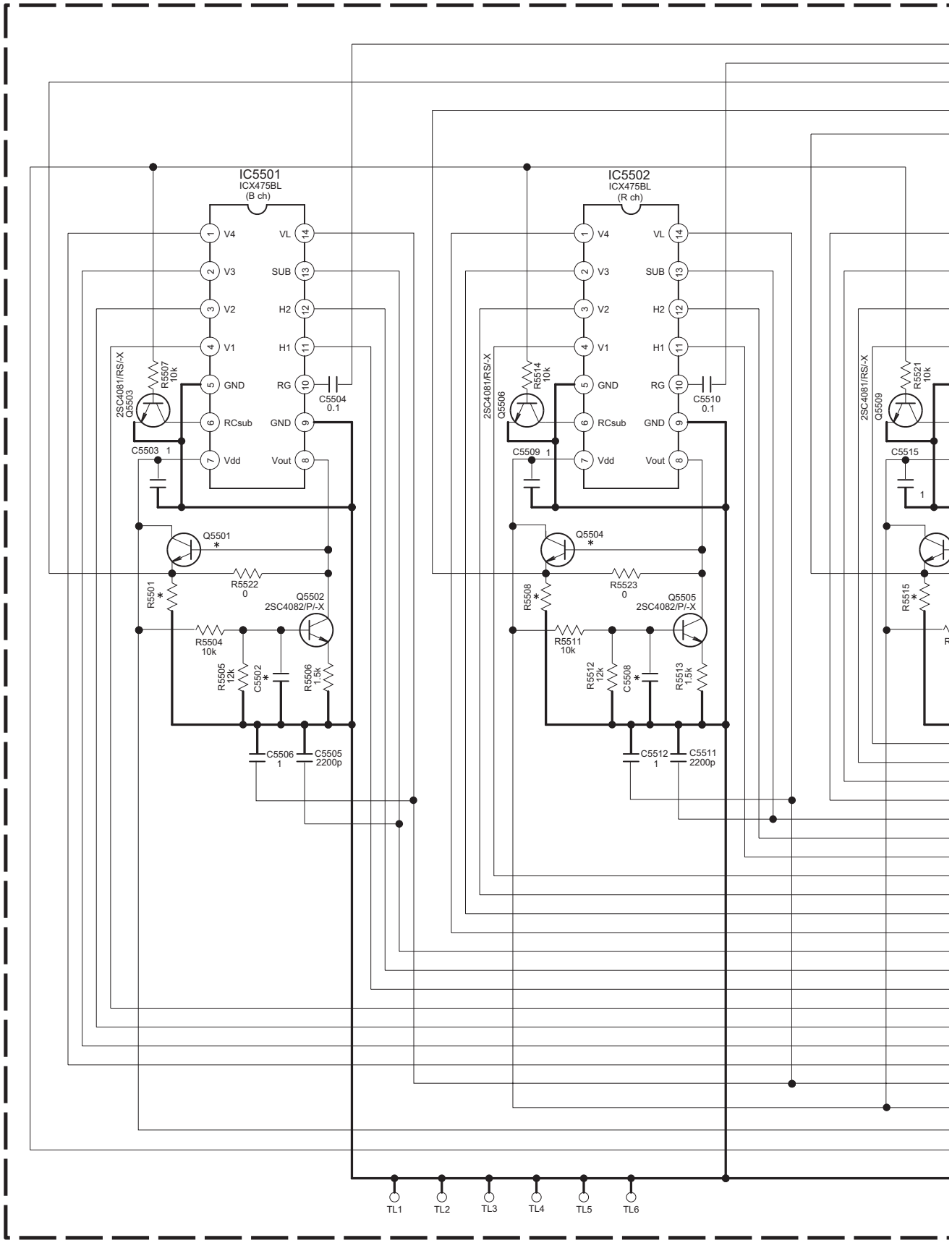



NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.

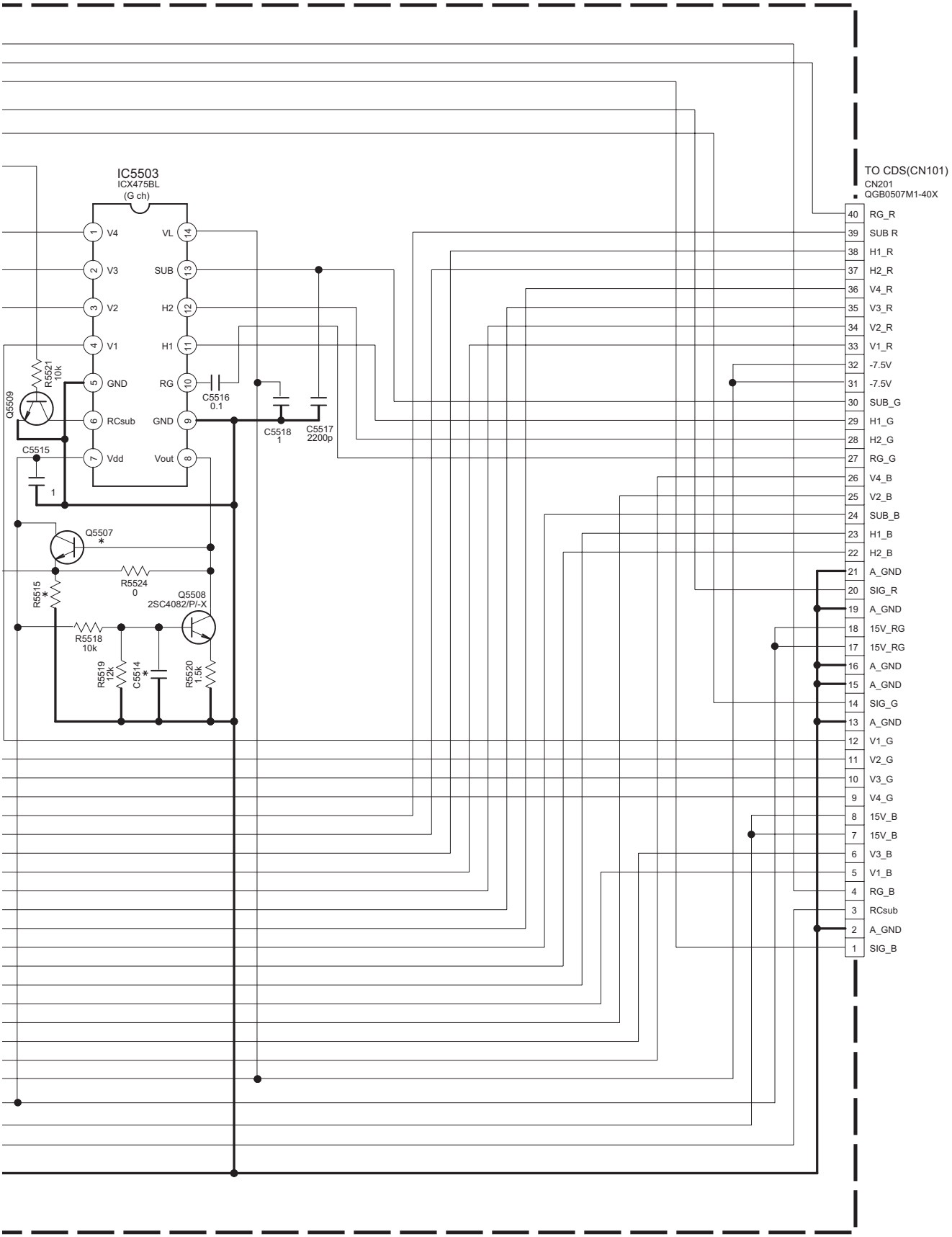

C5806
0.01
IC5801
NJU7008F3-X
5
4
1
2
3
TO P.PRCS
Y_GYAMP
C5807
2.2
R5805
47k
R5806
470k
C5810
330p
R5812
0R0
R5808
1M
R5807
18K
R5811
12K
C5812
0.1
C5808
330p
C5809
4.7/6.3
y30320001a_rev0.1

ONS".

## ■ CCD SCHEMATIC DIAGRAM




NOTES :1. For the destination of each signal and further line connectionsthat are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.
3. IC5501,IC5502,IC5503 is incorporated in the CCD base assembly(PRISM assembly) . When IC5501,IC5502,IC5503 needs replacement, replac

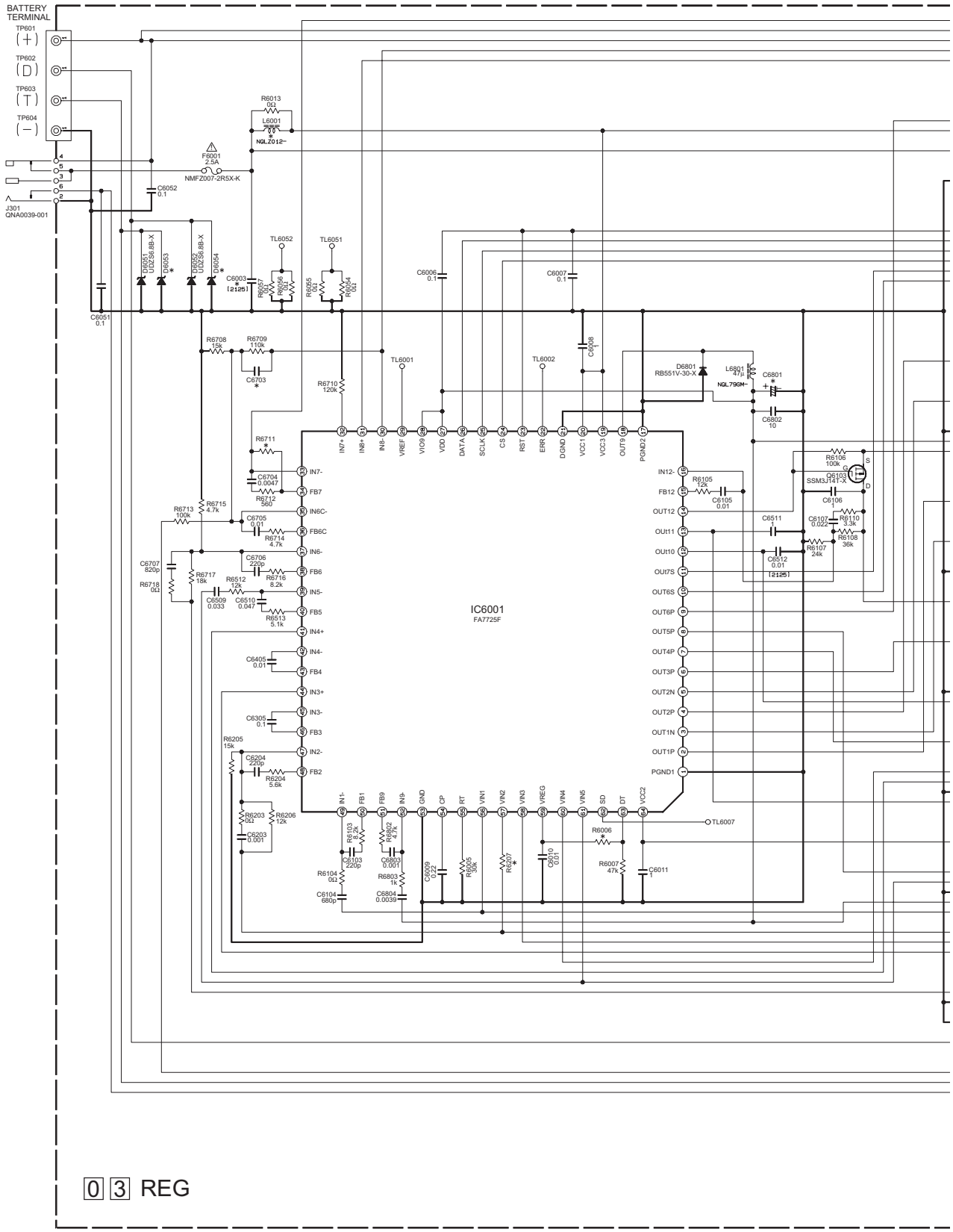



ɔNS".

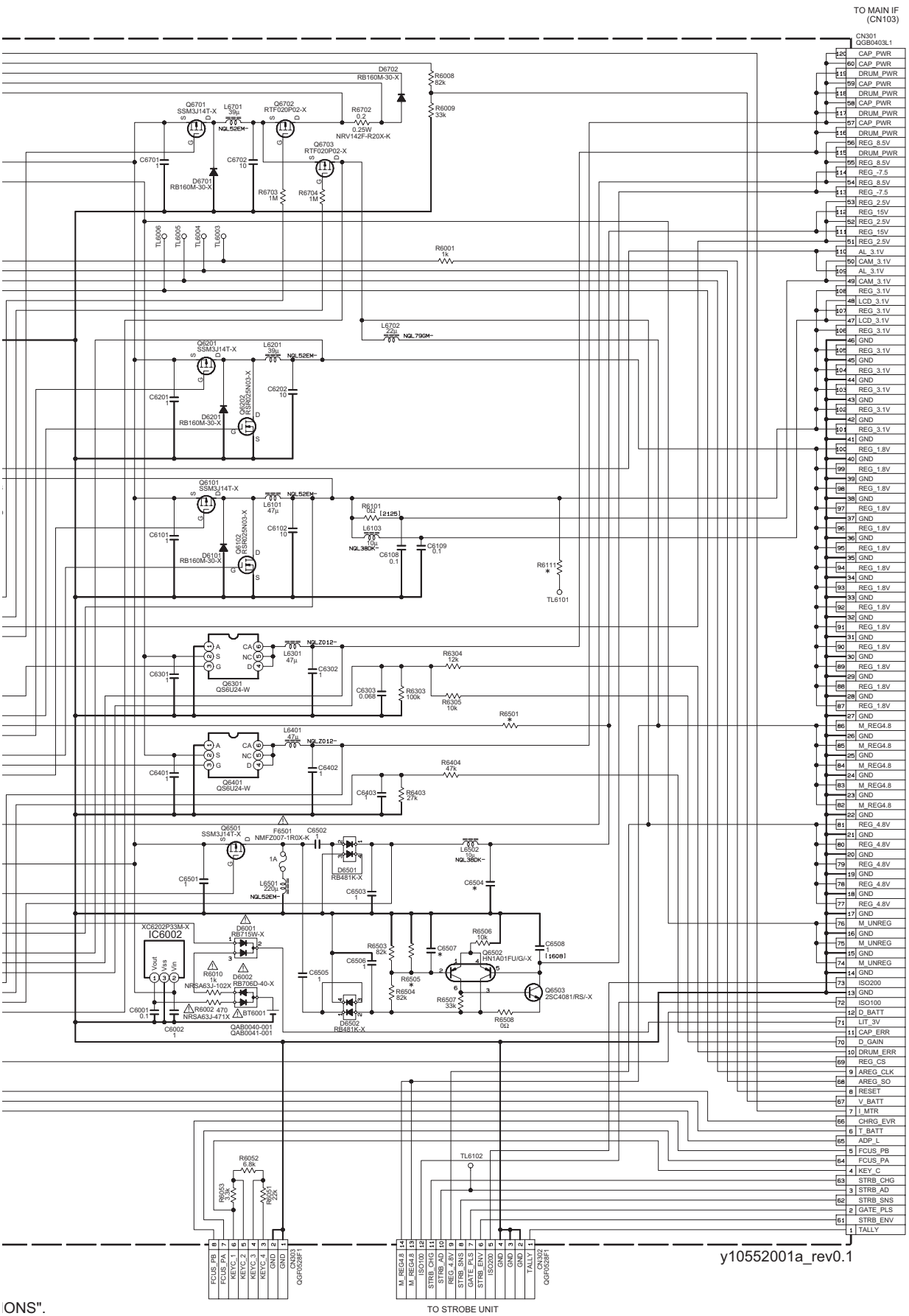
y20381001a_rev0.1

ment, replace the CCD base assembly(PRISM assembly) in whole because it cannot be replaced alone.

## ■ REG SCHEMATIC DIAGRAM

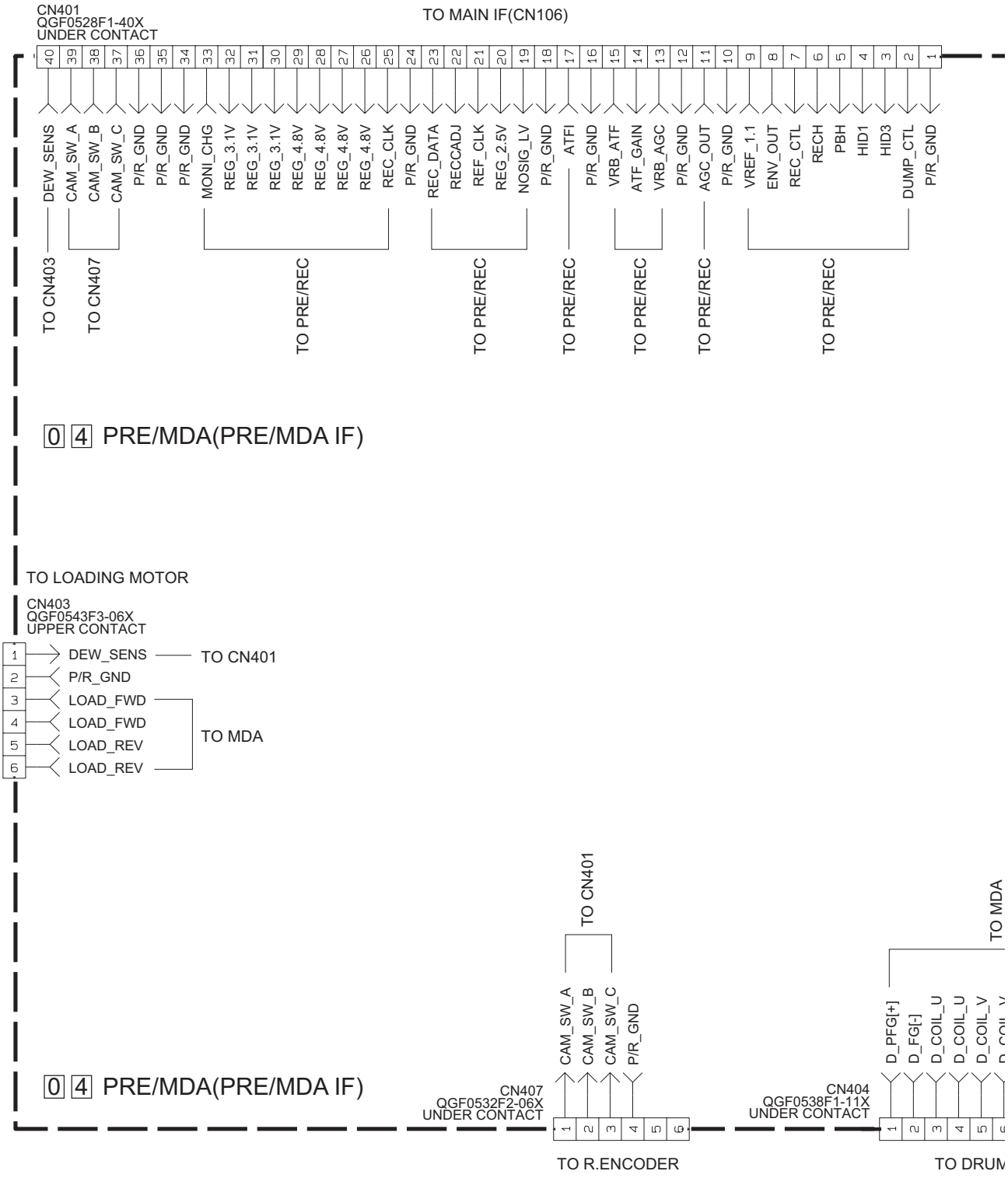



NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.

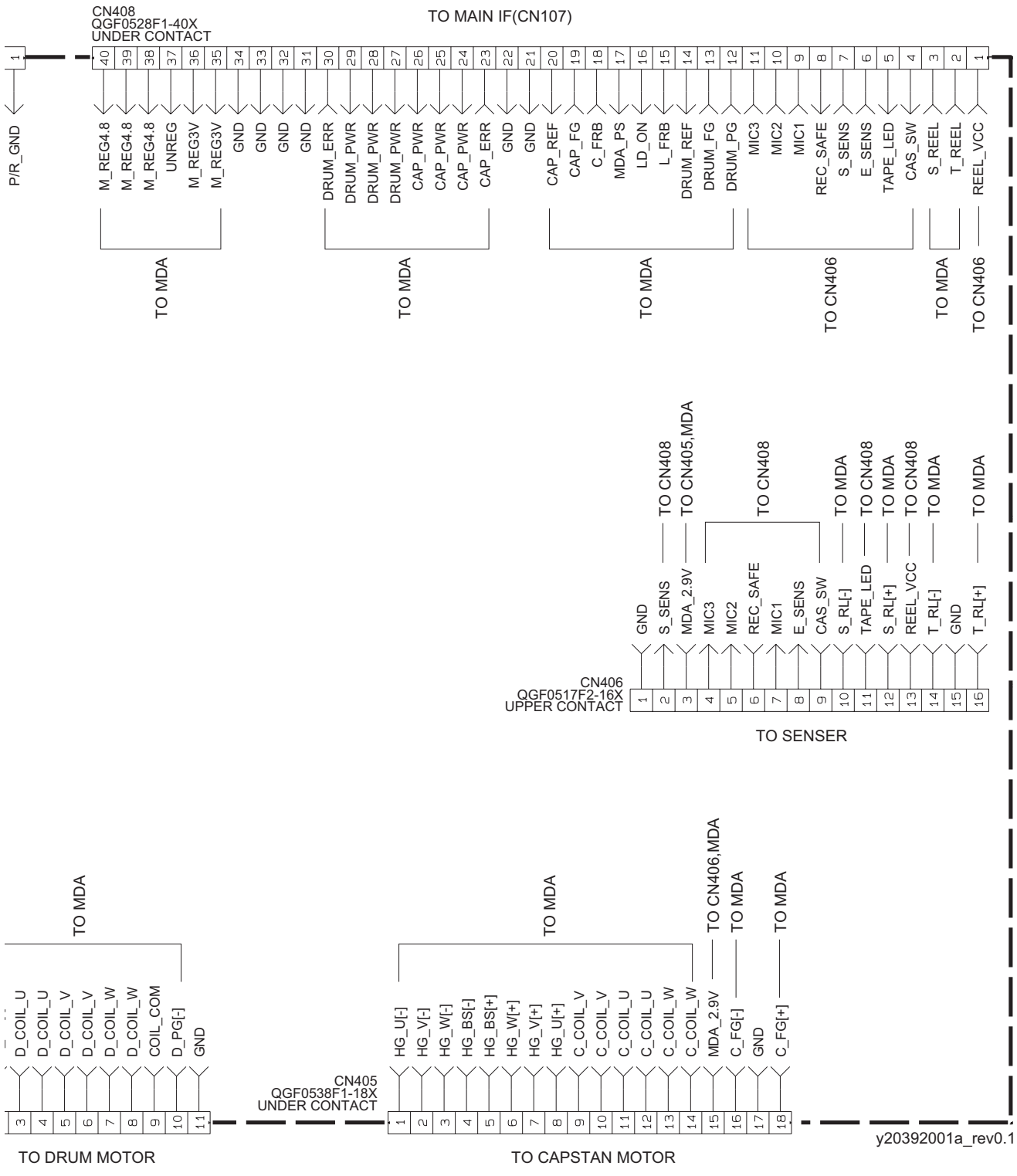

TO MAIN IF
(CN103)
CN301
QGB0403L1
CAP_PWR
DRUM_PWR
REG_8.5V
REG_-7.5
REG_2.5V
REG_15V
AL_3.1V
CAM_3.1V
REG_3.1V
LCD_3.1V
REG_1.8V
GND
M_REG4.8
ISO200
ISO100
D_BATT
LIT_3V
CAP_ERR
D_GAIN
DRUM_ERR
REG_CS
AREG_CLK
AREG_SO
RESET
V_BATT
I_MTR
CHRG_EVR
T_BATT
ADP_L
FCUS_PB
FCUS_PA
KEY_C
STRB_CHG
STRB_AD
STRB_SNS
GATE_PLS
STRB_ENV
TALLY
D6702
RB160M-30-X
R6008
82k
R6009
33k
Q6701
SSM3J14T-X
L6701
39µ
NQL52EM-
Q6702
RTF020P02-X
R6702
0.2
0.25W
NRV142F-R20X-K
Q6703
RTF020P02-X
C6701
1
C6702
10
D6701
RB160M-30-X
R6703
1M
R6704
1M
TL6006
TL6005
TL6004
TL6003
R6001
1k
L6702
NQL79GM-
Q6201
SSM3J14T-X
L6201
39µ
NQL52EM-
C6201
1
C6202
10
D6201
RB160M-30-X
Q6202
RSR025N03-X
Q6101
SSM3J14T-X
L6101
47µ
NQL52EM-
C6101
1
C6102
10
D6101
RB160M-30-X
Q6102
RSR025N03-X
R6101
0Ω
[2125]
L6103
10µ
NQL38DK-
C6108
0.1
C6109
0.1
R6111
*
TL6101
Q6301
QS6U24-W
L6301
47µ
NQL2012-
C6301
1
C6302
1
C6303
0.068
R6303
100k
R6304
12k
R6305
10k
R6501
*
Q6401
QS6U24-W
L6401
47µ
NQL2012-
C6401
1
C6402
1
C6403
1
R6403
27k
R6404
47k
Q6501
SSM3J14T-X
F6501
NMFZ007-1R0X-K
1A
C6502
1
D6501
RB481K-X
L6502
10µ
NQL38DK-
C6501
1
L6501
220µ
NQL52EM-
C6503
1
C6504
*
XC6202P33M-X
IC6002
Vout
Vss
Vin
D6001
RB715W-X
R6010
1k
NRSA63J-102X
D6002
RB706D-40-X
R6002
470
NRSA63J-471X
BT6001
C6001
0.1
C6002
1
QAB0040-001
QAB0041-001
C6505
1
C6506
1
R6503
82k
R6504
82k
R6505
*
C6507
*
D6502
RB481K-X
R6506
10k
Q6502
HN1A01FU/G/-X
C6508
1
[1608]
Q6503
2SC4081/RS/-X
R6507
33k
R6508
0Ω
R6052
6.8k
R6053
3.3k
R6051
22k
TL6102
FCUS_PB
FCUS_PA
KEYC_1
KEYC_2
KEYC_3
KEYC_4
GND
CN302
QGP0528F1
M_REG4.8
ISO100
STRB_CHG
STRB_AD
REG_4.8V
STRB_SNS
GATE_PLS
STRB_ENV
ISO200
TALLY
TO STROBE UNIT
y10552001a_rev0.1

ONS".

## ■ PRE/MDA(PRE/MDA IF) SCHEMATIC DIAGRAM

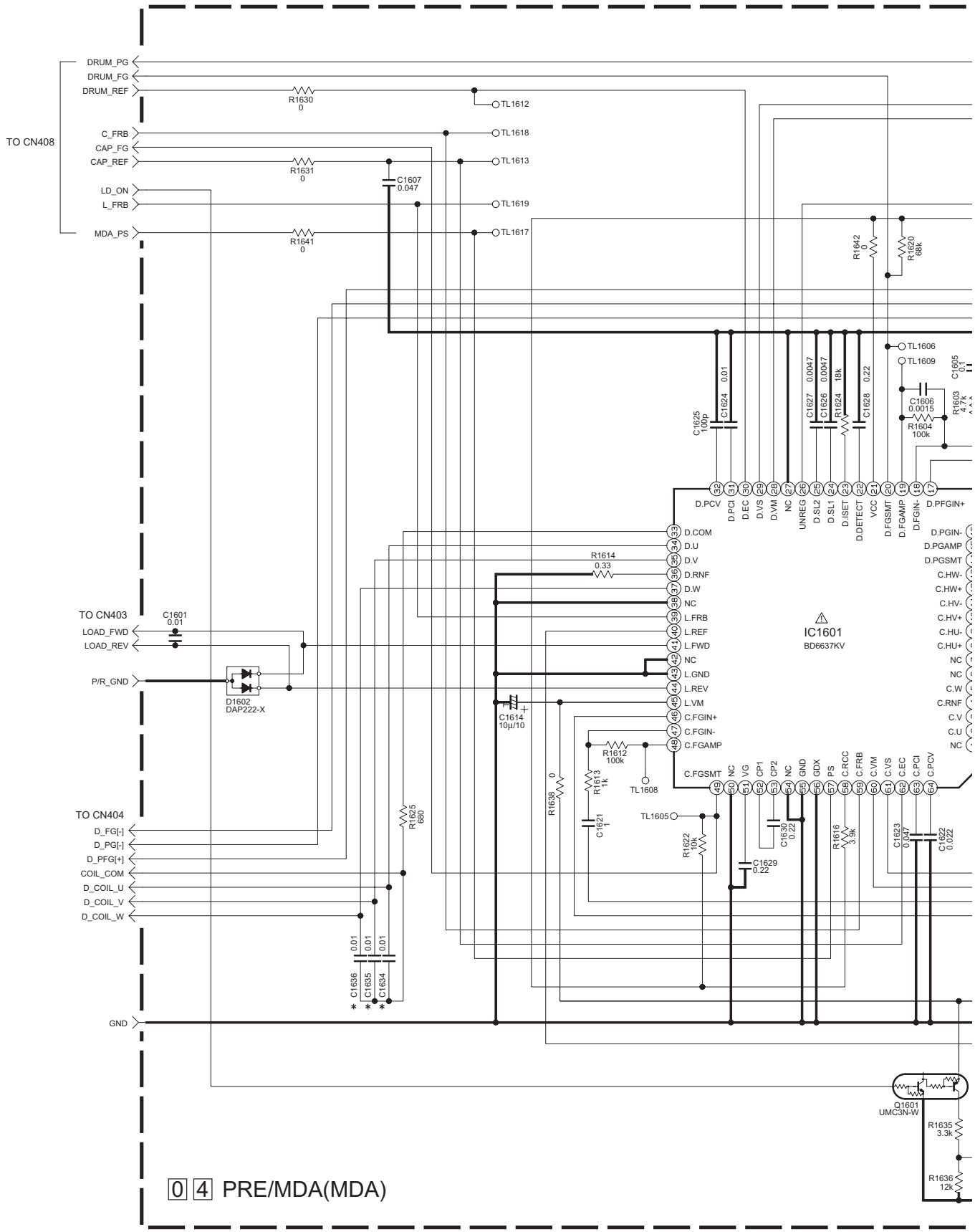



NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.

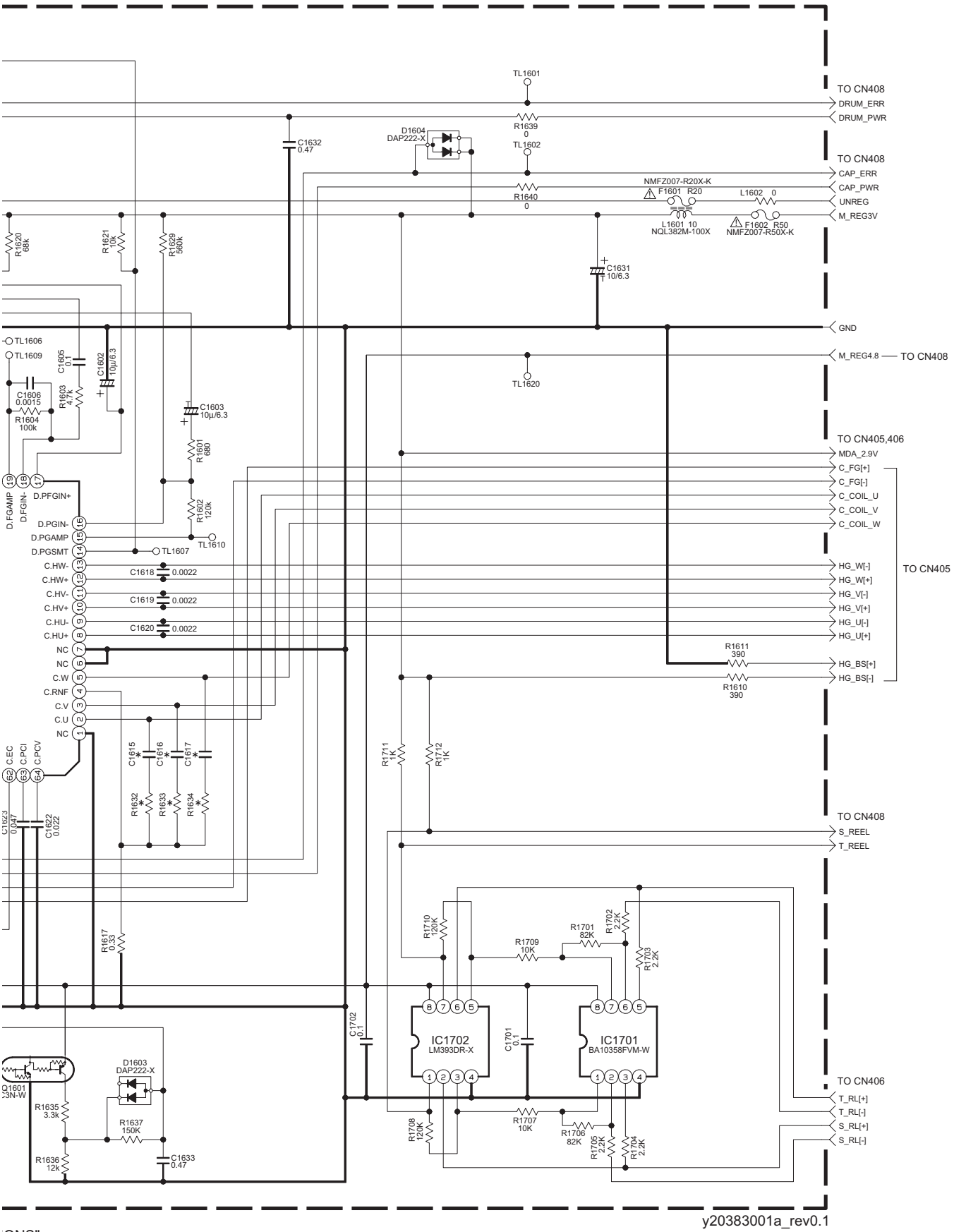

CN408
QGF0528F1-40X
UNDER CONTACT
TO MAIN IF(CN107)
P/R_GND
M_REG4.8
M_REG4.8
M_REG4.8
UNREG
M_REG3V
M_REG3V
GND
GND
GND
GND
DRUM_ERR
DRUM_PWR
DRUM_PWR
DRUM_PWR
CAP_PWR
CAP_PWR
CAP_PWR
CAP_ERR
GND
GND
CAP_REF
CAP_FG
C_FRB
MDA_PS
LD_ON
L_FRB
DRUM_REF
DRUM_FG
DRUM_PG
MIC3
MIC2
MIC1
REC_SAFE
S_SENS
E_SENS
TAPE_LED
CAS_SW
S_REEL
T_REEL
REEL_VCC
TO MDA
TO MDA
TO MDA
TO CN406
TO MDA
TO CN406
CN406
QGF0517F2-16X
UPPER CONTACT
GND
S_SENS
MDA_2.9V
MIC3
MIC2
REC_SAFE
MIC1
E_SENS
CAS_SW
S_RL[-]
TAPE_LED
S_RL[+]
REEL_VCC
T_RL[-]
GND
T_RL[+]
TO CN408
TO CN405,MDA
TO CN408
TO MDA
TO CN408
TO MDA
TO CN408
TO MDA
TO MDA
TO SENSER
CN405
QGF0538F1-18X
UNDER CONTACT
HG_U[-]
HG_V[-]
HG_W[-]
HG_BS[-]
HG_BS[+]
HG_W[+]
HG_V[+]
HG_U[+]
C_COIL_V
C_COIL_V
C_COIL_U
C_COIL_U
C_COIL_W
C_COIL_W
MDA_2.9V
C_FG[-]
GND
C_FG[+]
TO MDA
TO CN406,MDA
TO MDA
TO MDA
D_COIL_U
D_COIL_U
D_COIL_V
D_COIL_V
D_COIL_W
D_COIL_W
COIL_COM
D_PG[-]
GND
TO MDA
TO DRUM MOTOR
TO CAPSTAN MOTOR
y20392001a_rev0.1

ONS".

## ■ PRE/MDA(MDA) SCHEMATIC DIAGRAM



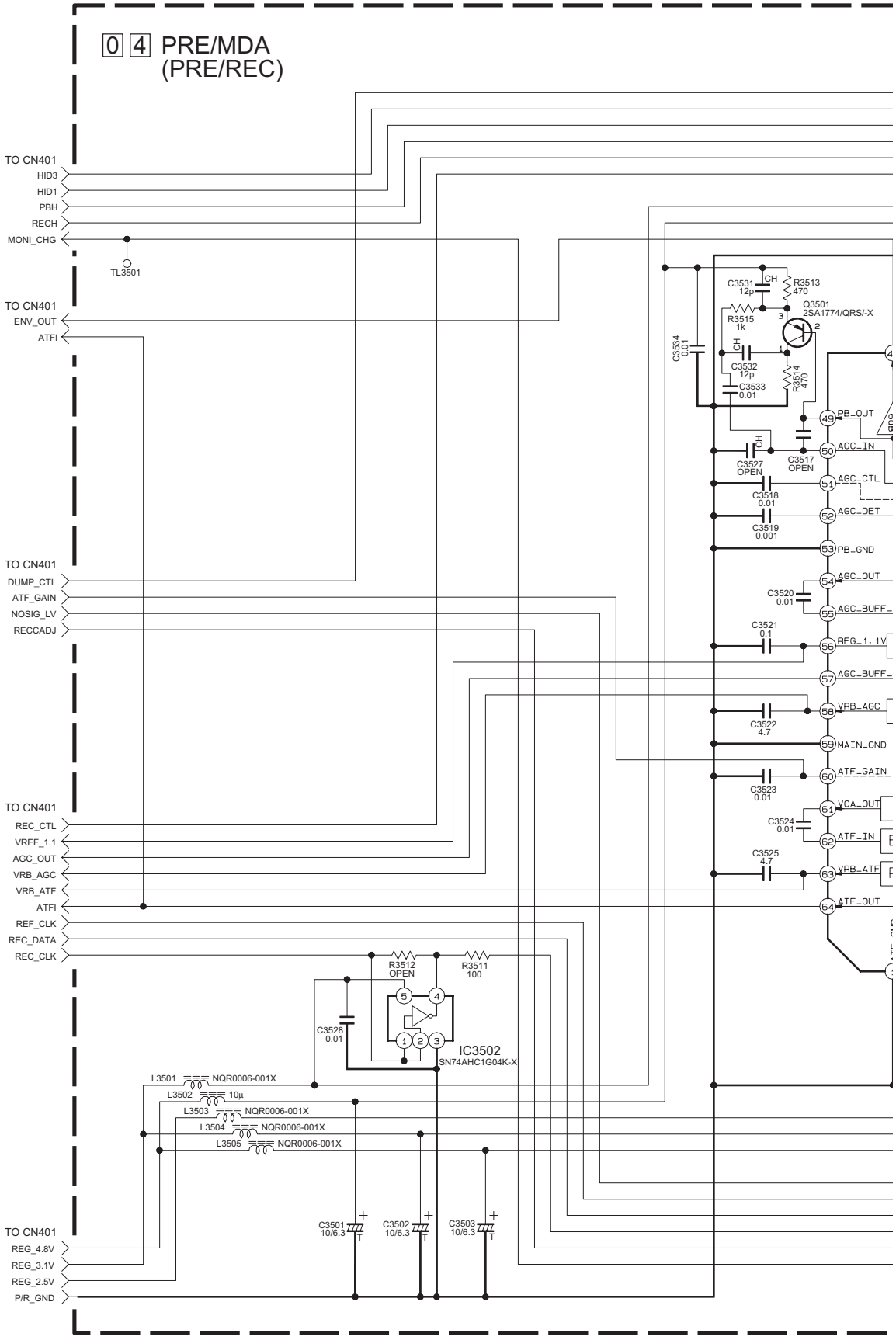

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



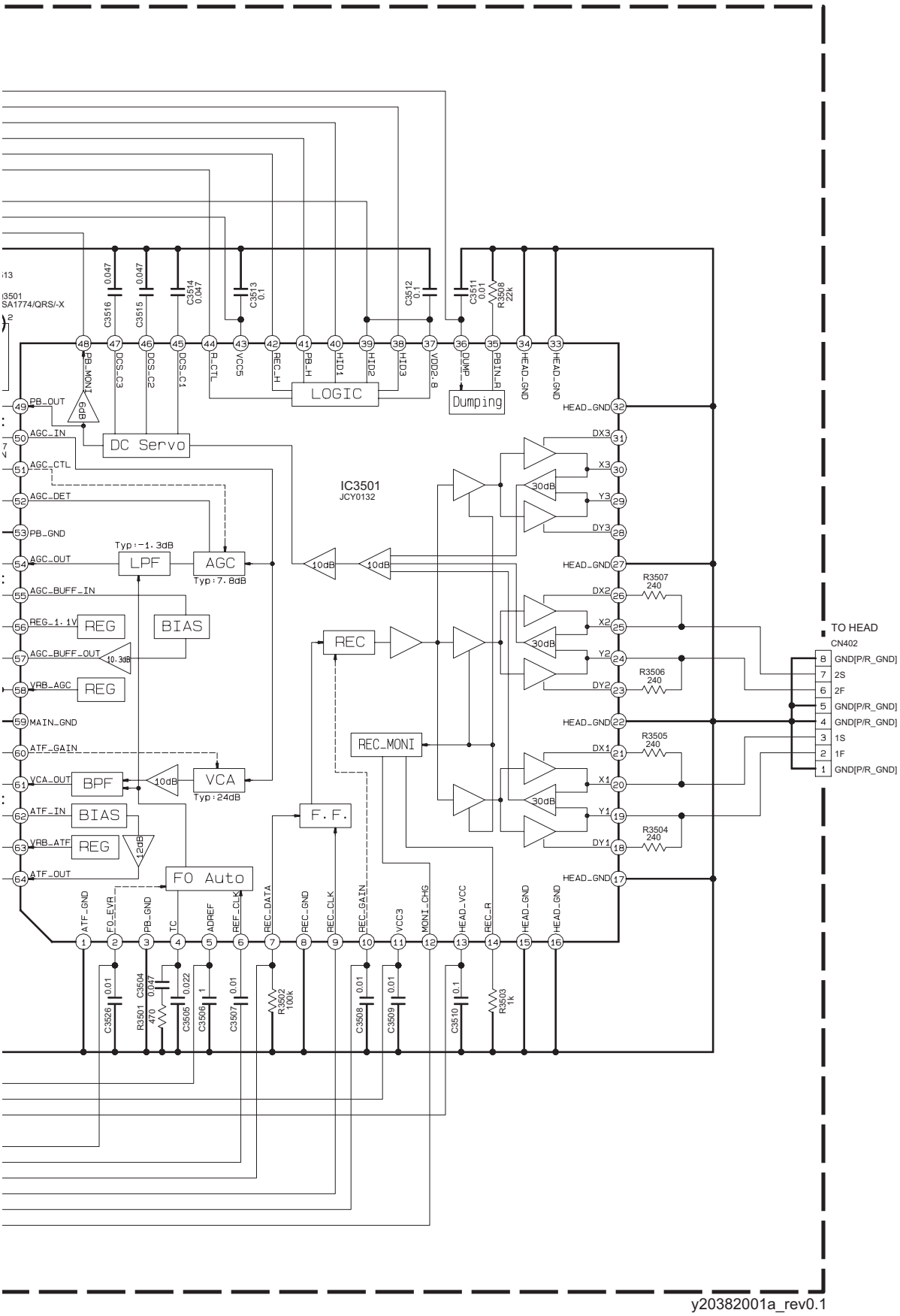

y20383001a_rev0.1

ONS".

## ■ PRE/MDA(PRE/REC) SCHEMATIC DIAGRAM



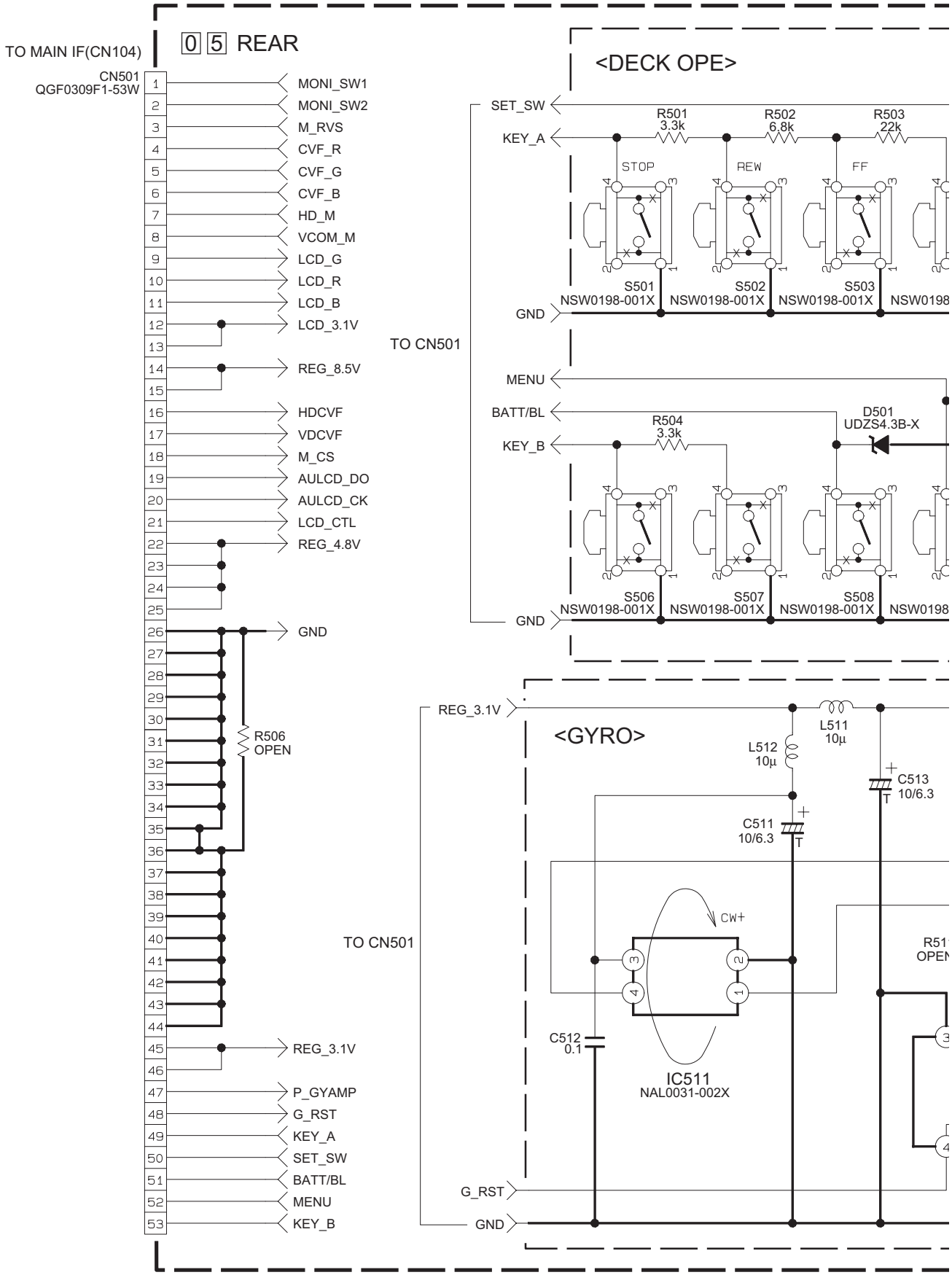

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



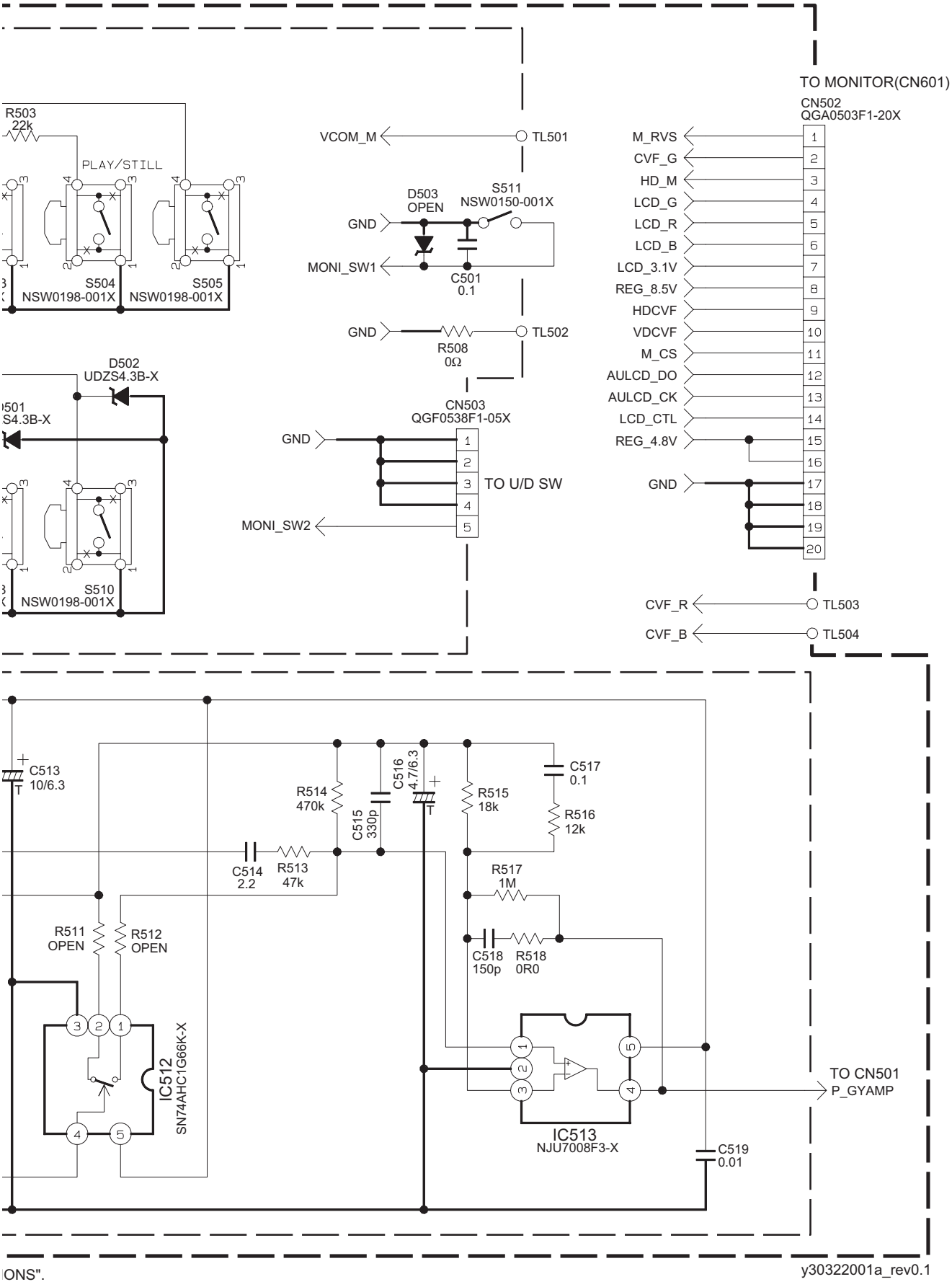

y20382001a_rev0.1

ONS".

## ■ REAR(DECK OPE, GYRO) SCHEMATIC DIAGRAM



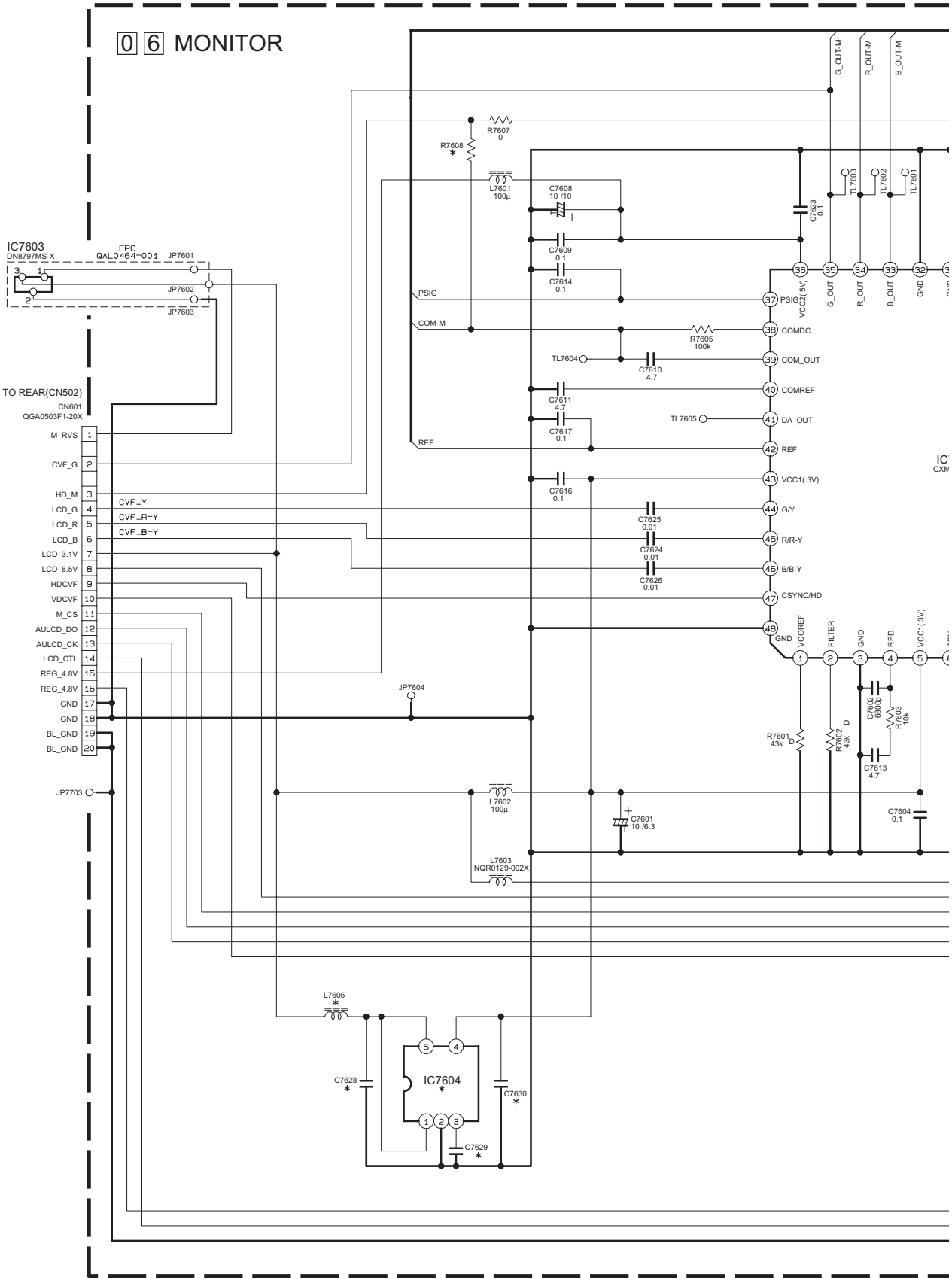

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.



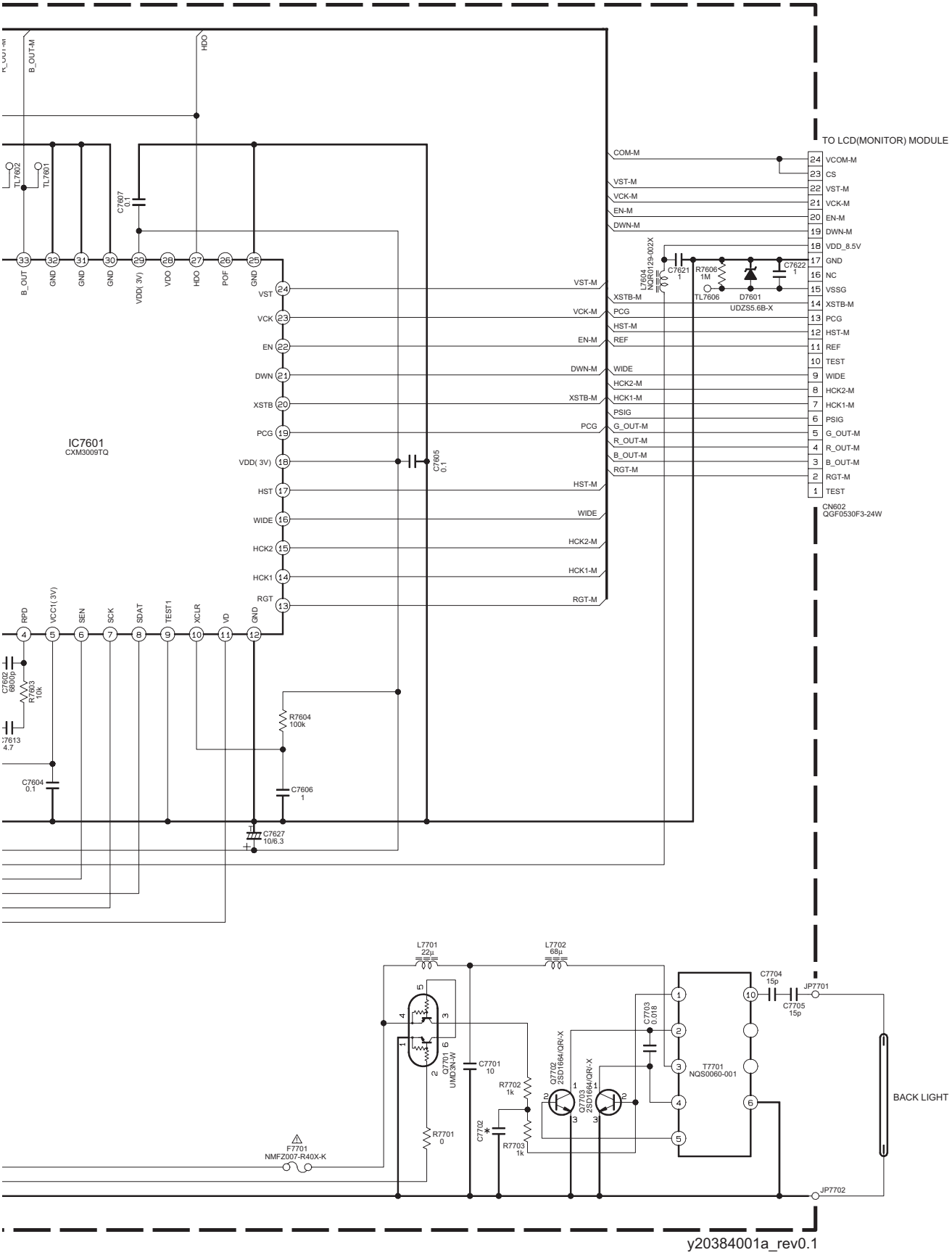

ONS".

y30322001a_rev0.1

## ■ MONITOR SCHEMATIC DIAGRAM

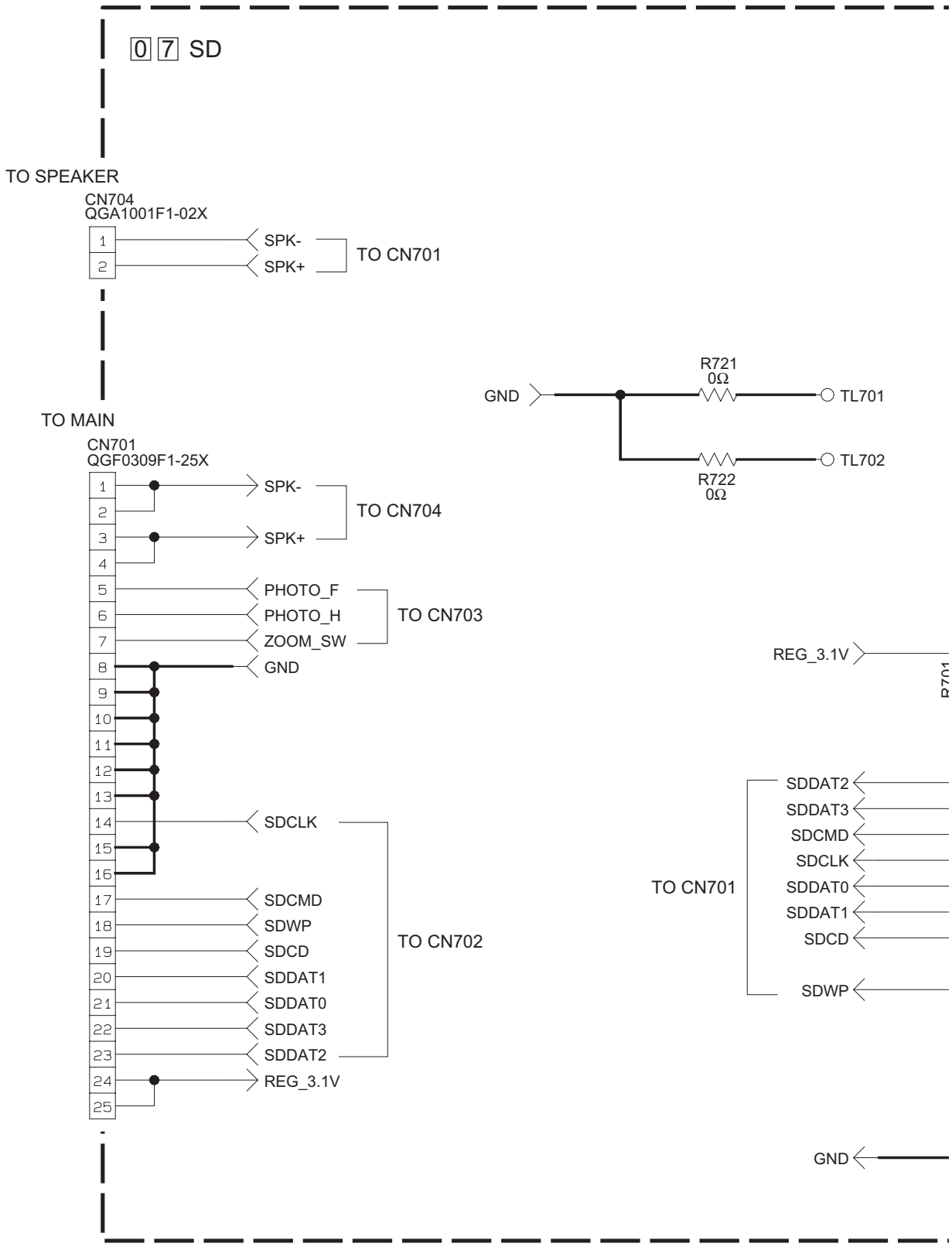



NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.

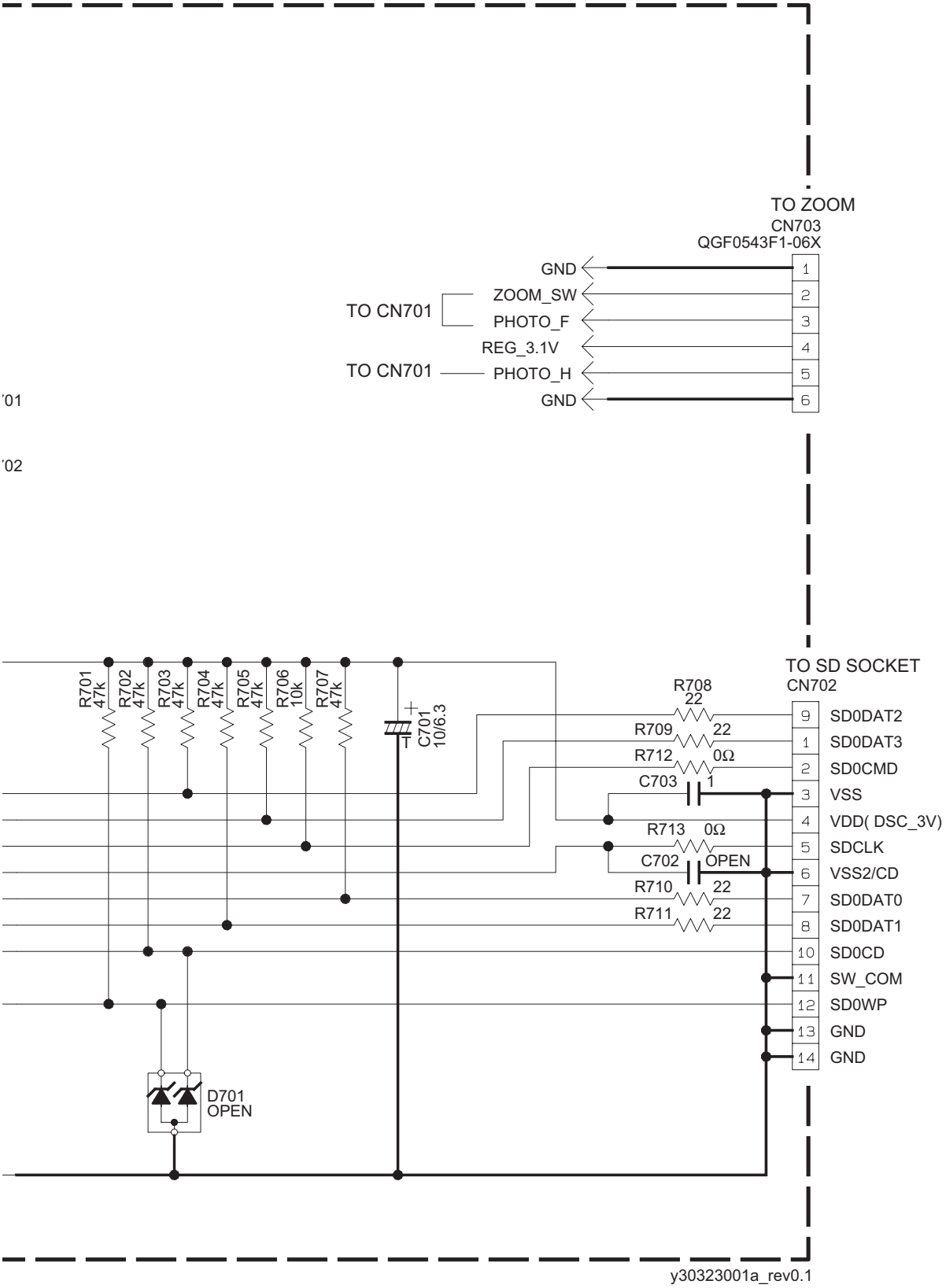

TO LCD(MONITOR) MODULE
IC7601
CXM3009TQ
CN602
QGF0530F3-24W
BACK LIGHT
y20384001a_rev0.1

ONS".

## ■ SD SCHEMATIC DIAGRAM

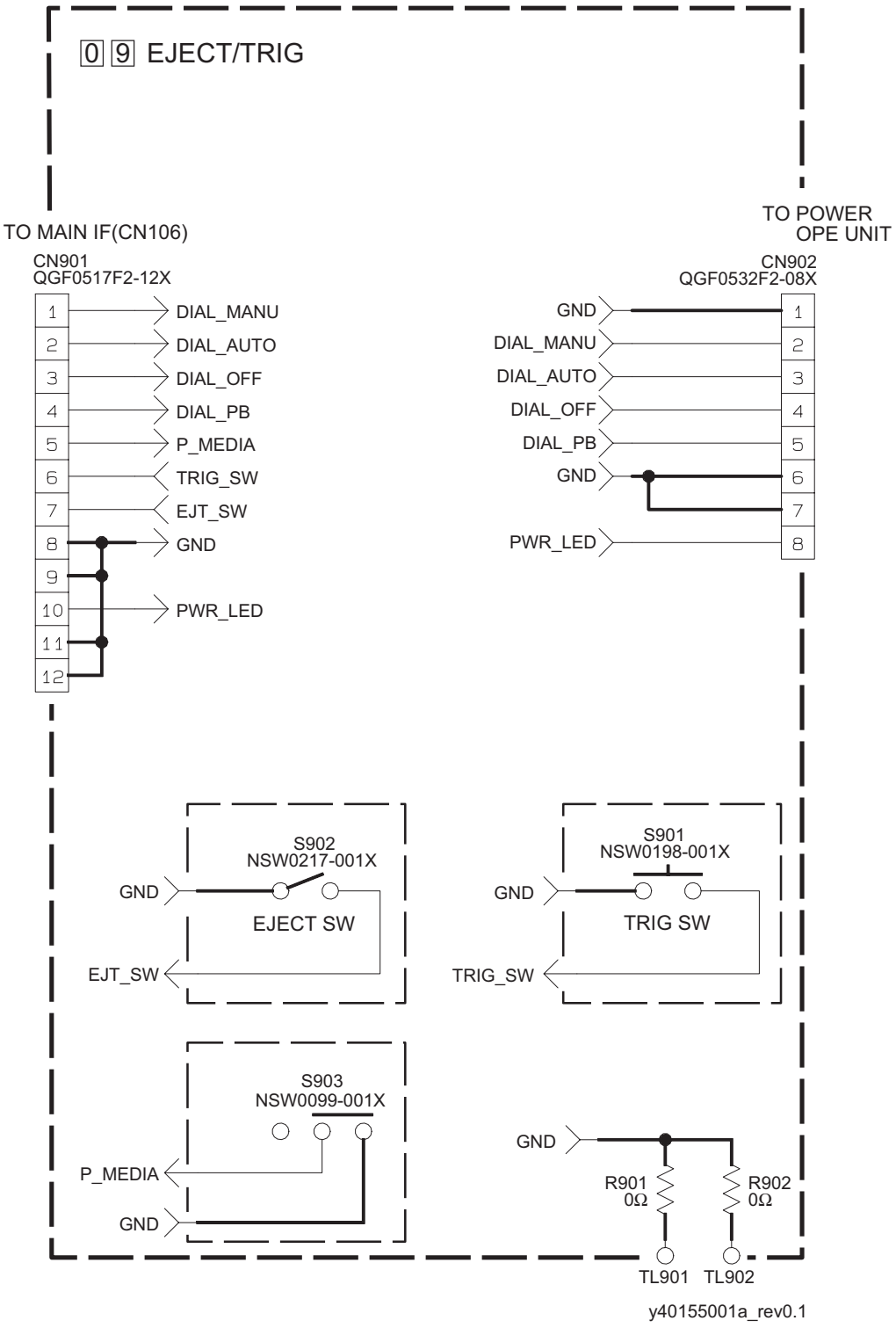



NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.


TO ZOOM
CN703
QGF0543F1-06X
GND
ZOOM_SW
PHOTO_F
REG_3.1V
PHOTO_H
GND
TO CN701
TO CN701
1
2
3
4
5
6
'01
'02
R701 47k
R702 47k
R703 47k
R704 47k
R705 47k
R706 10k
R707 47k
C701 10/6.3
D701 OPEN
R708 22
R709 22
R712 0Ω
C703 1
R713 0Ω
C702 OPEN
R710 22
R711 22
TO SD SOCKET
CN702
9 SD0DAT2
1 SD0DAT3
2 SD0CMD
3 VSS
4 VDD( DSC_3V)
5 SDCLK
6 VSS2/CD
7 SD0DAT0
8 SD0DAT1
10 SD0CD
11 SW_COM
12 SD0WP
13 GND
14 GND
y30323001a_rev0.1

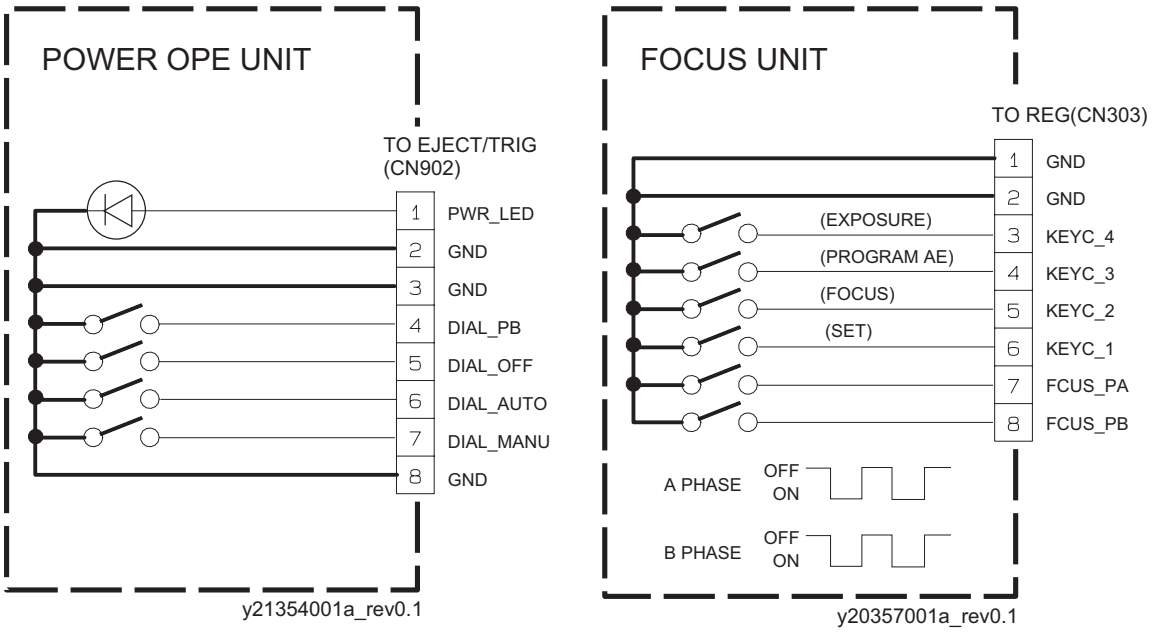
IONS".

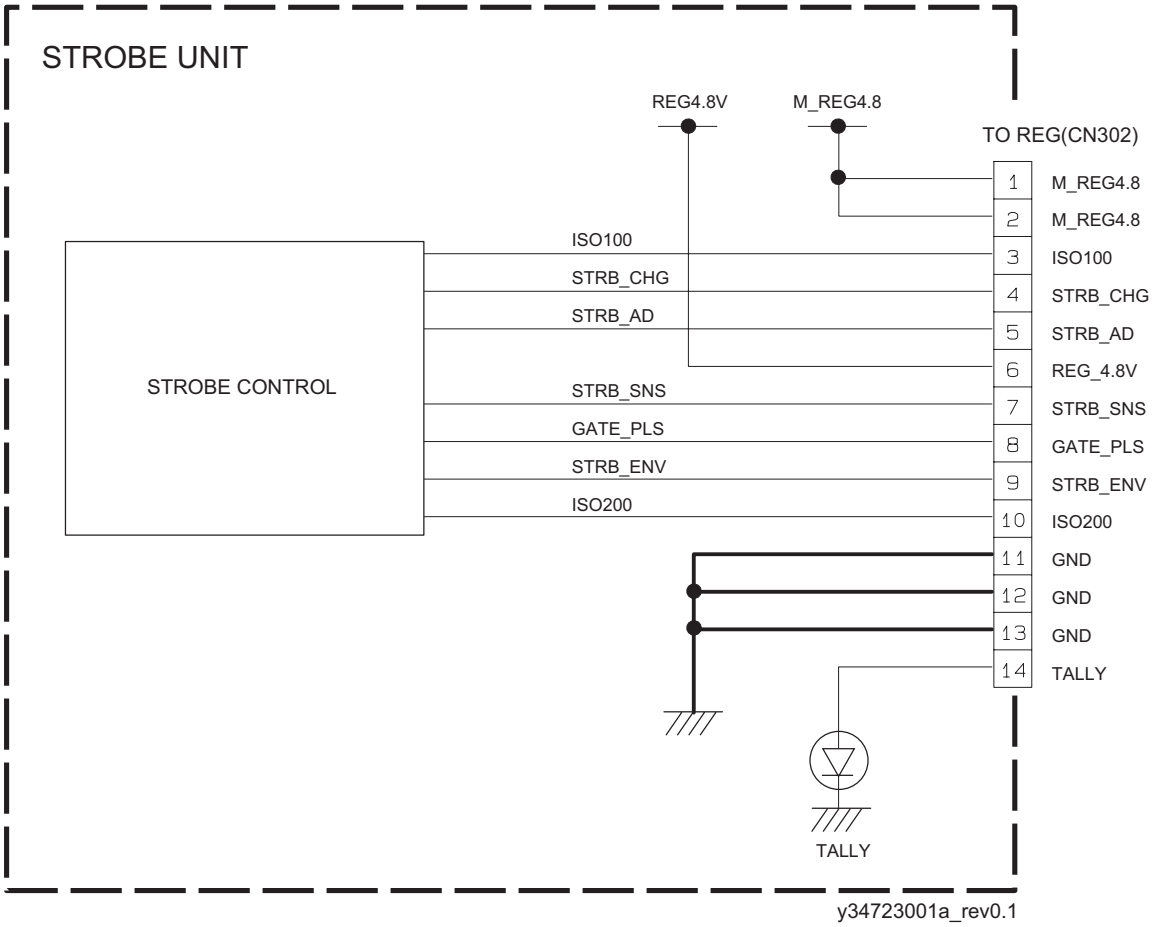
## ■ EJECT/TRIG SCHEMATIC DIAGRAM




NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.

## ■ POWER OPE UNIT, FOCUS UNIT, STROBE UNIT SCHEMATIC DIAGRAMS



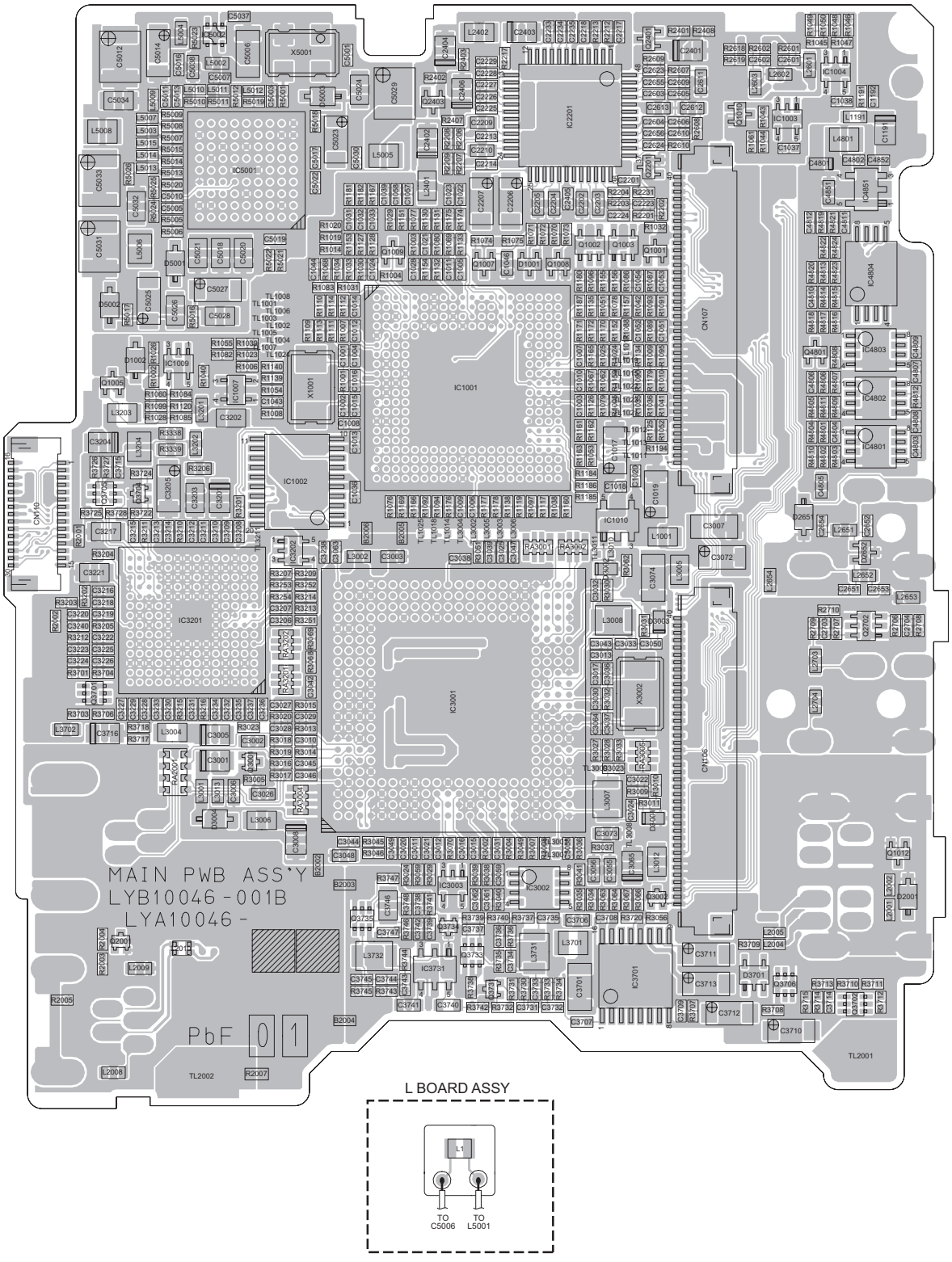

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The parts with marked (∗) is not used.
3. The schematic diagram is only for reference.
Avoid replacing individual parts. Replace the entire unit only.

## ■ MAIN CIRCUIT BOARD

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

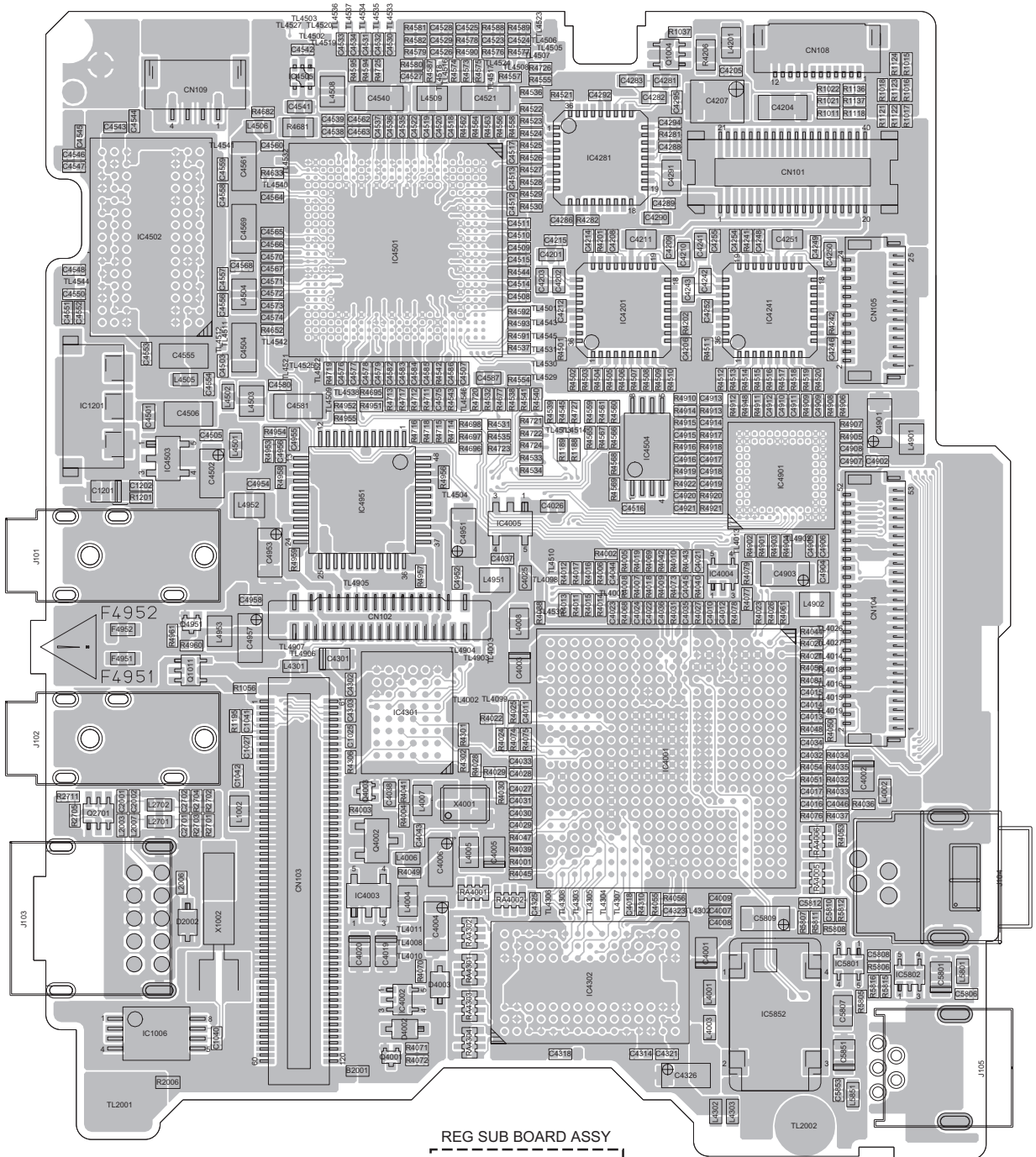
**<01>MAIN**
**LYB10046-001B**

**FOIL SIDE(B)**

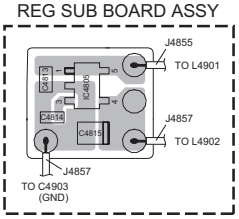


CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
POUR UNE PROTECTION PERMANENTE CONTRE LES RISQUE D'INCENDE,
REMPLACER LES FUSIBLES PAR UNAAUTRE DE MEME TYPE ET DE MEME TENSION.

## COMPONENT SIDE(A)



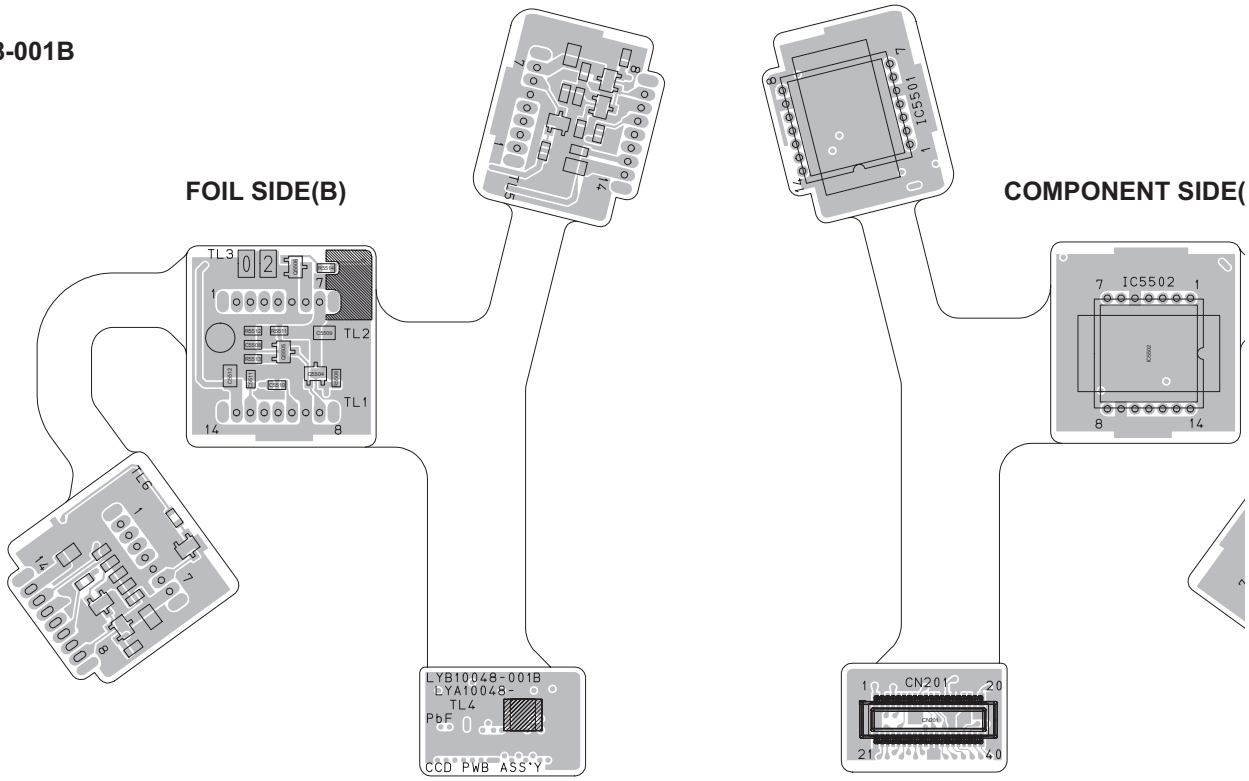

REG SUB BOARD ASSY



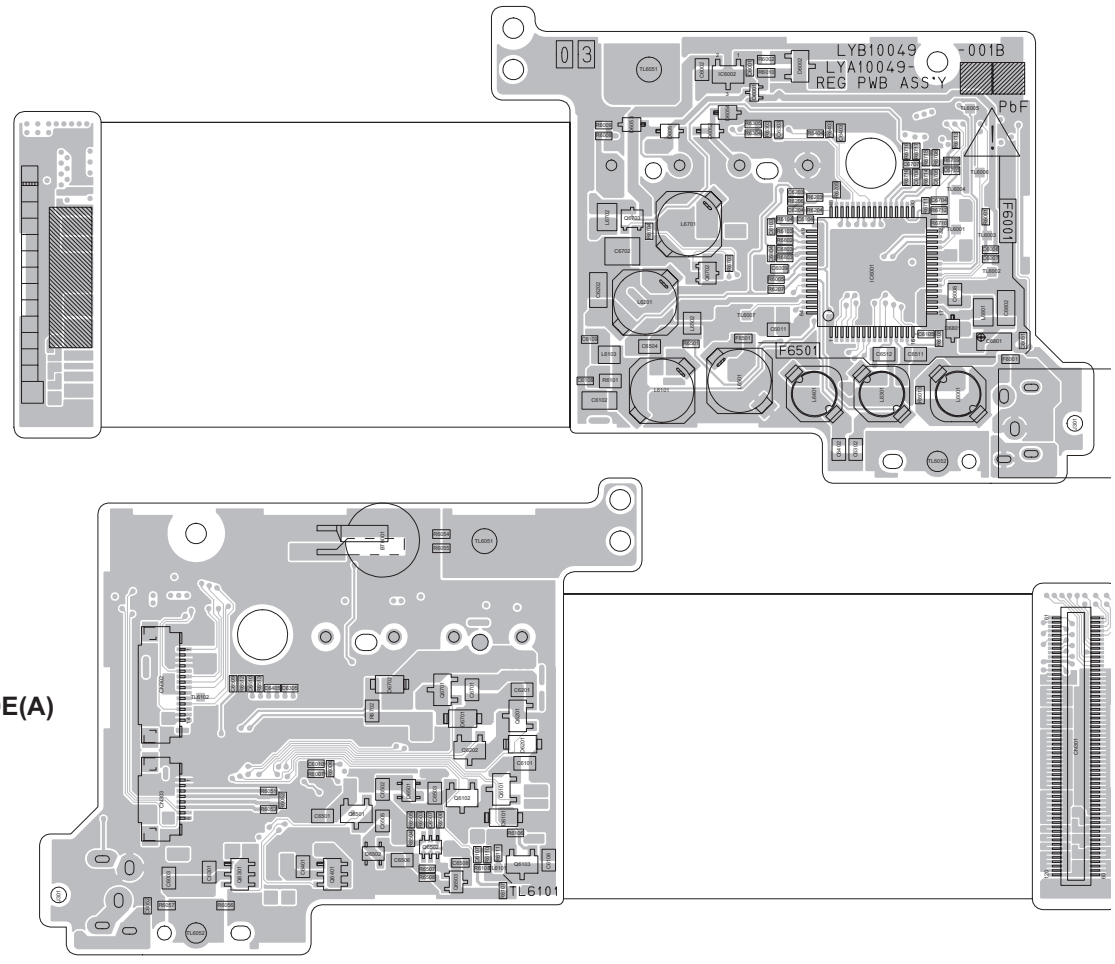
## ■ CCD,REG,PRE/MDA,REAR CIRCUIT BOARDS

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

**<02>CCD**
**LYB10048-001B**



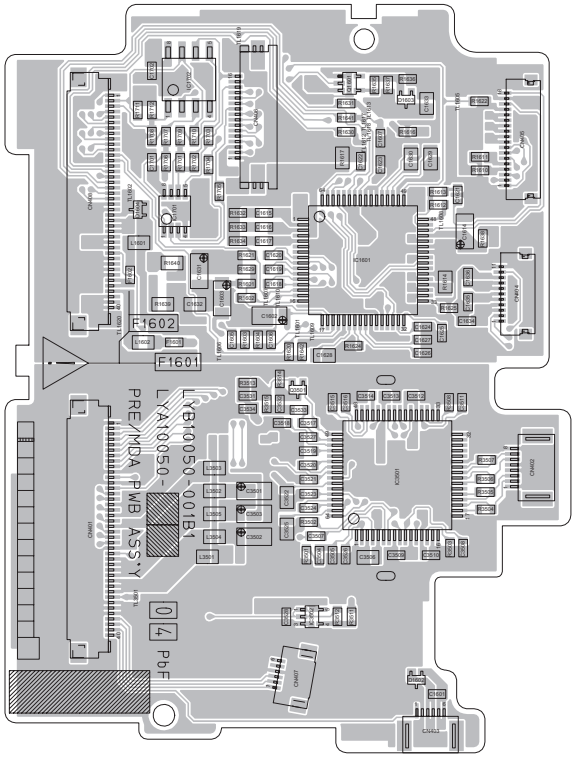

**<03>REG**
**LYB10049-001B**



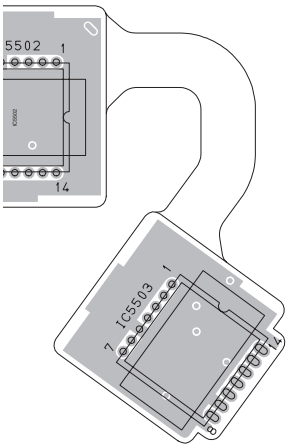
CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
POUR UNE PROTECTION PERMANENTE CONTRE LES RISQUE D'INCENDE,
REMPLACER LES FUSIBLES PAR UNAAUTRE DE MEME TYPE ET DE MEME TENSION.

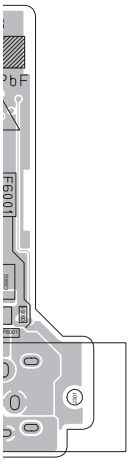
**<04>PRE/MDA**
**LYB10050-001B**

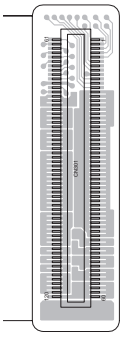
**COMPONENT SIDE(A)**



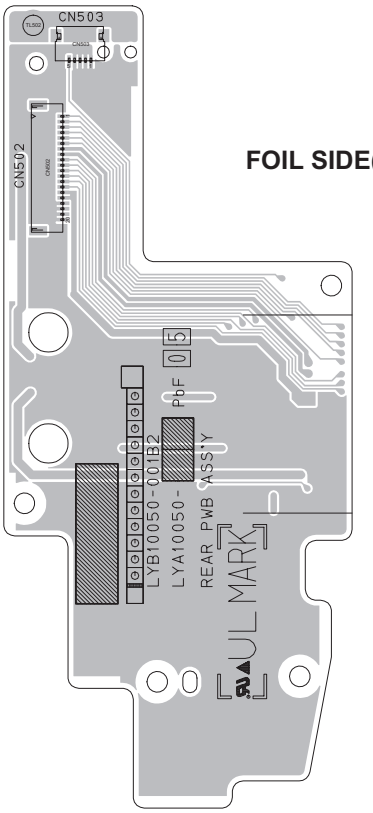

**NT SIDE(A)**



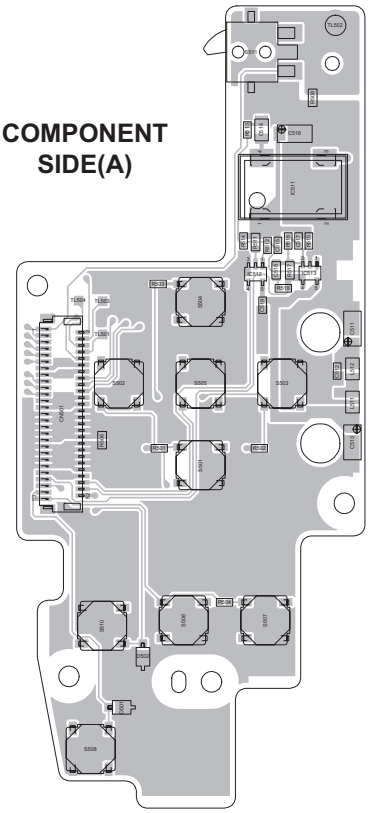



**<05>REAR**
**LYB10050-001B**




**FOIL SIDE(B)**

**COMPONENT SIDE(A)**

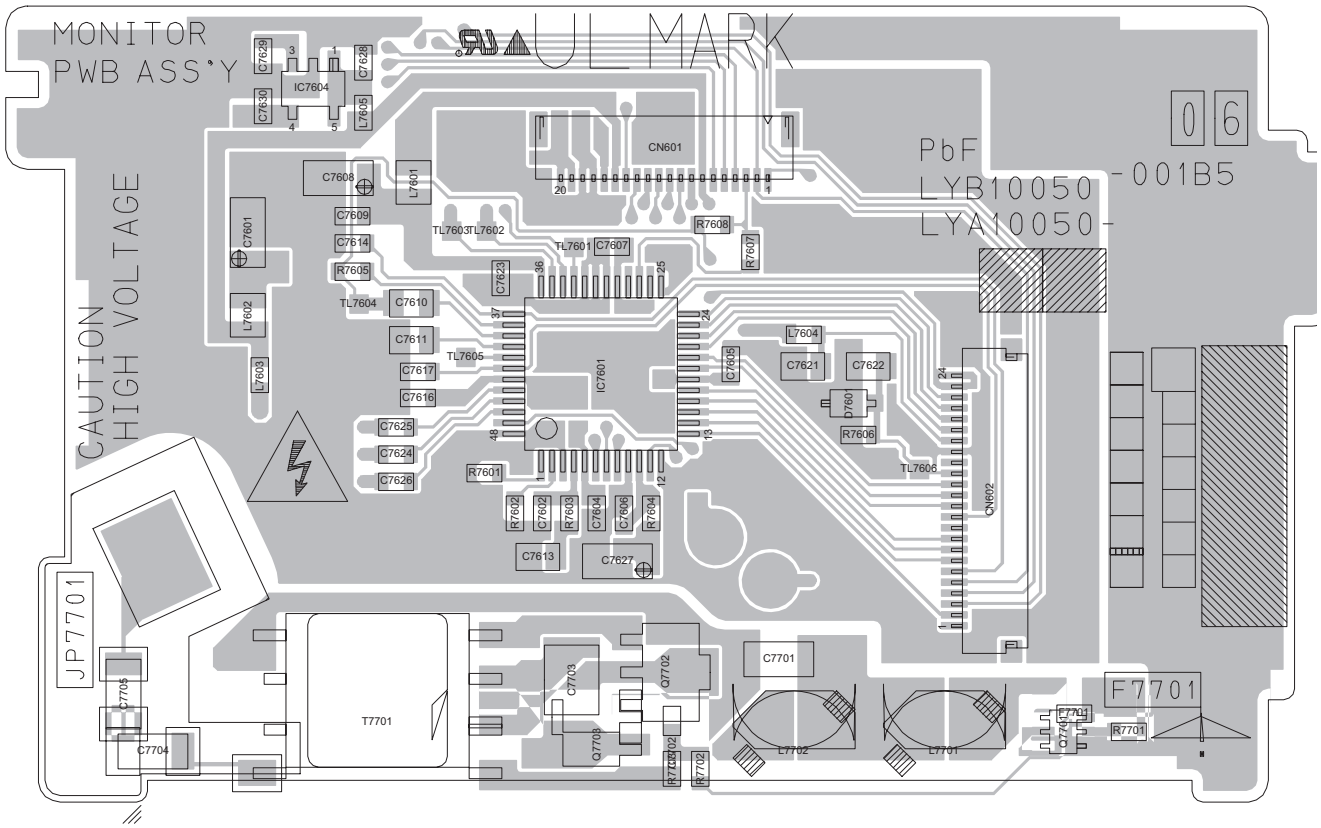


## ■ MONITOR,SD,EJECT/TRIG CIRCUIT BOARDS

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

**<06>MONITOR**
**LYB10050-001B**

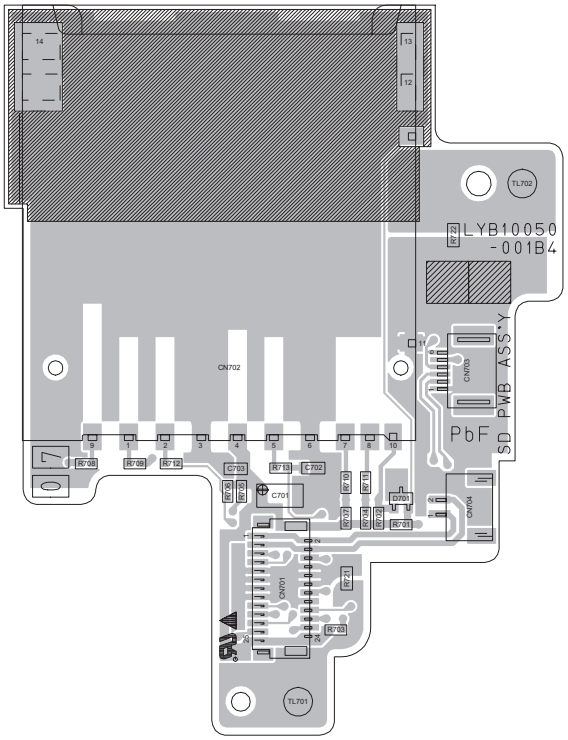
**COMPONENT SIDE(A)**



CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
POUR UNE PROTECTION PERMANENTE CONTRE LES RISQUE D'INCENDE,
REMPLACER LES FUSIBLES PAR UNAAUTRE DE MEME TYPE ET DE MEME TENSION.

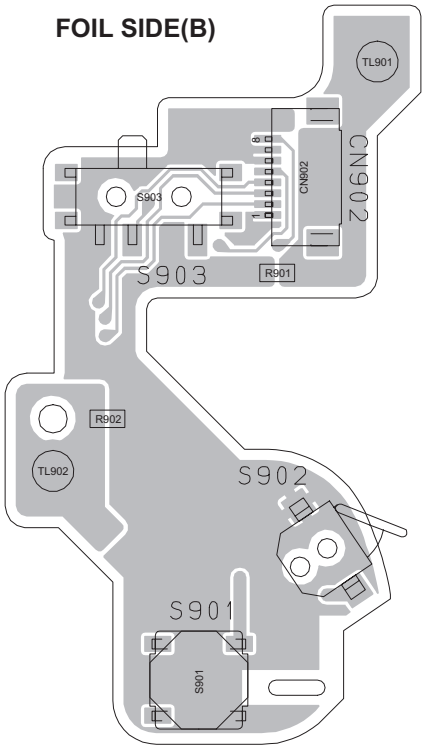
**<07>SD**
**LYB10050-001B**

**COMPONENT SIDE(A)**

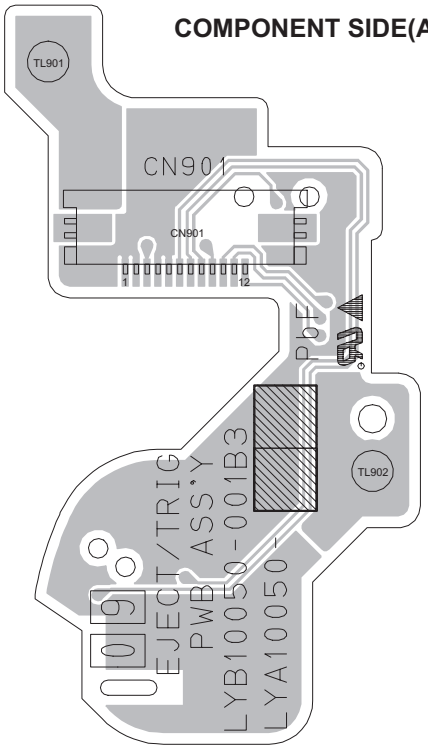



**<09>EJECT/TRIG**
**LYB10050-001B**

**FOIL SIDE(B)**

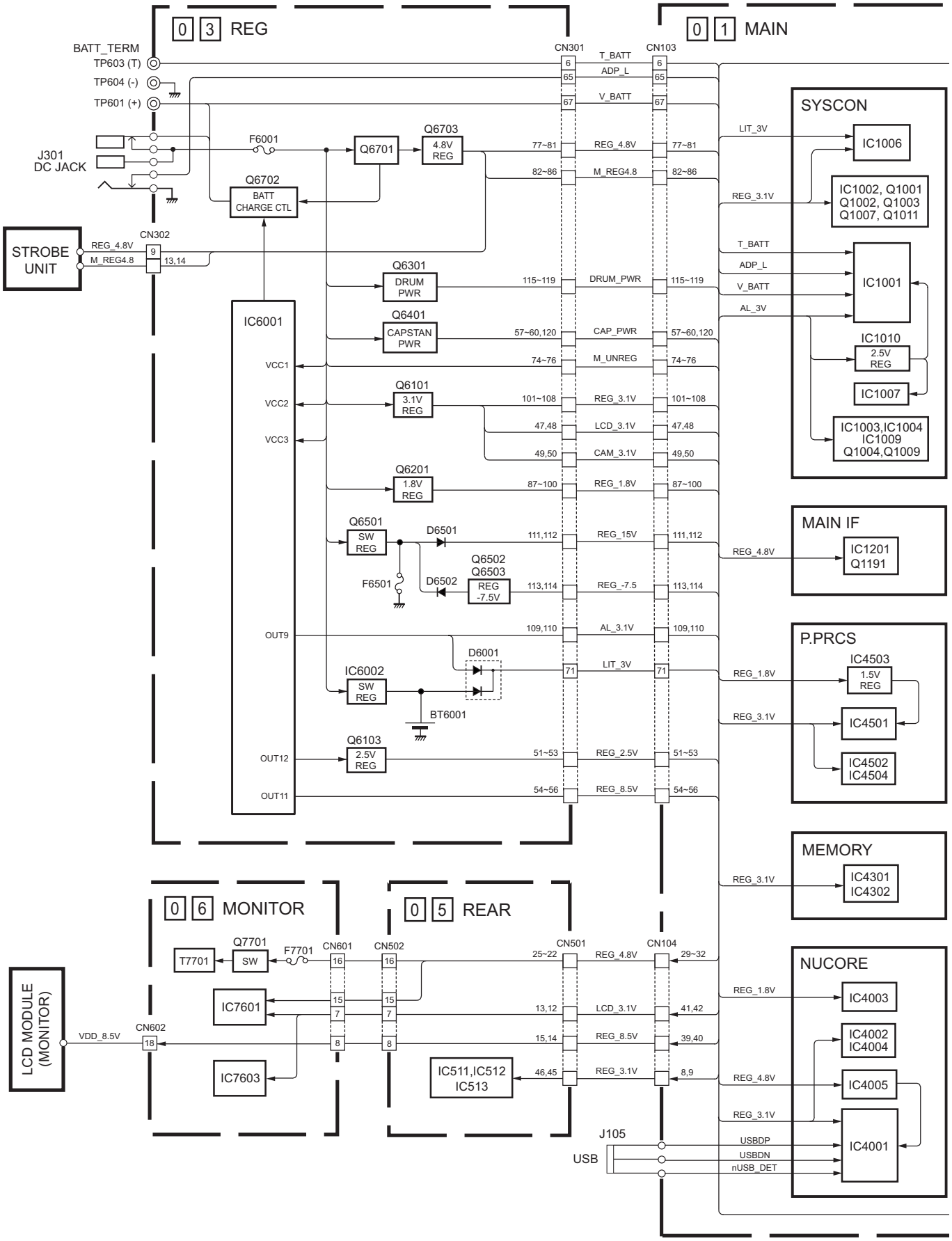



**COMPONENT SIDE(A)**

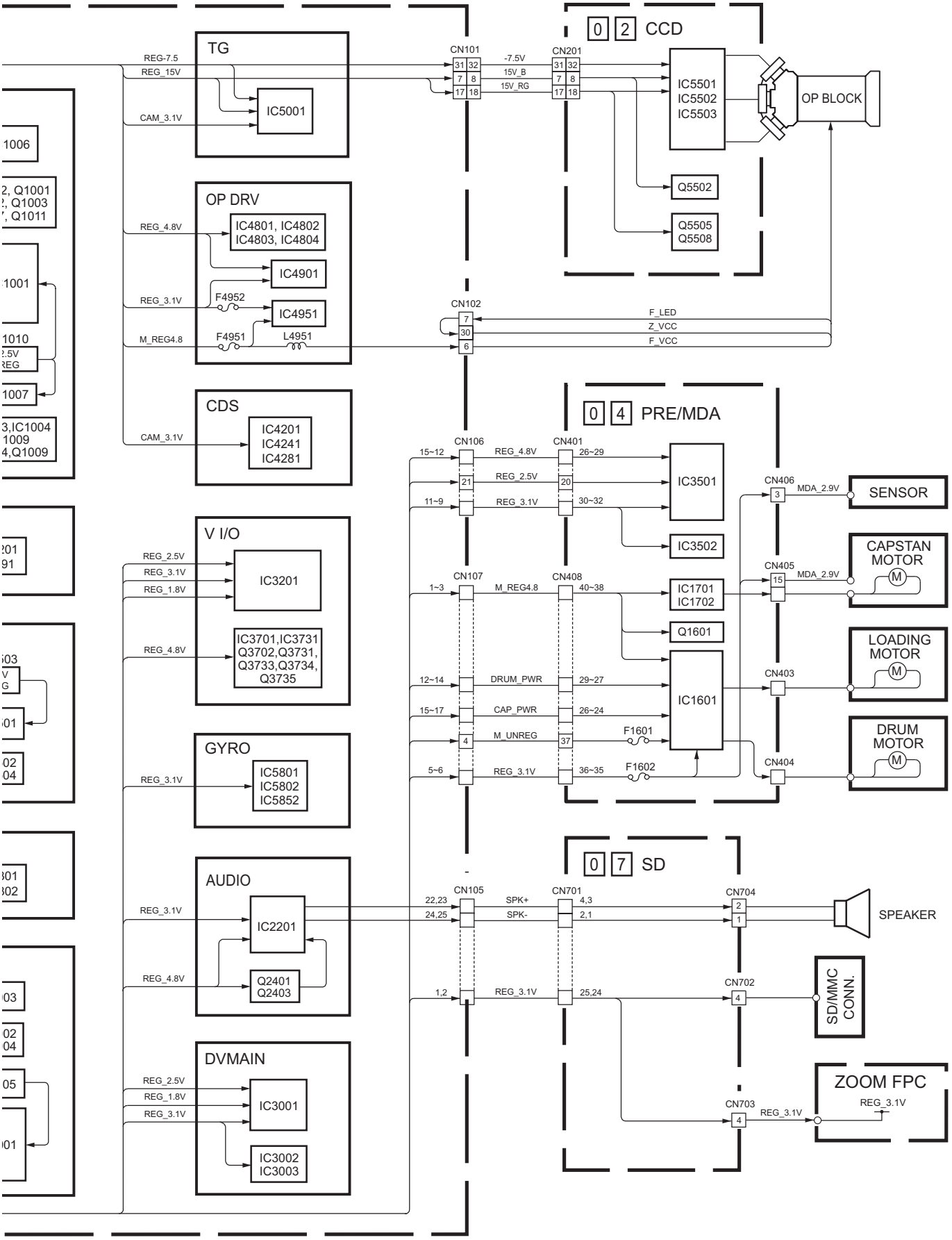


## ■ POWER BLOCK DIAGRAM

NOTES: There are circuits or functions that are not used according to the models. Ple

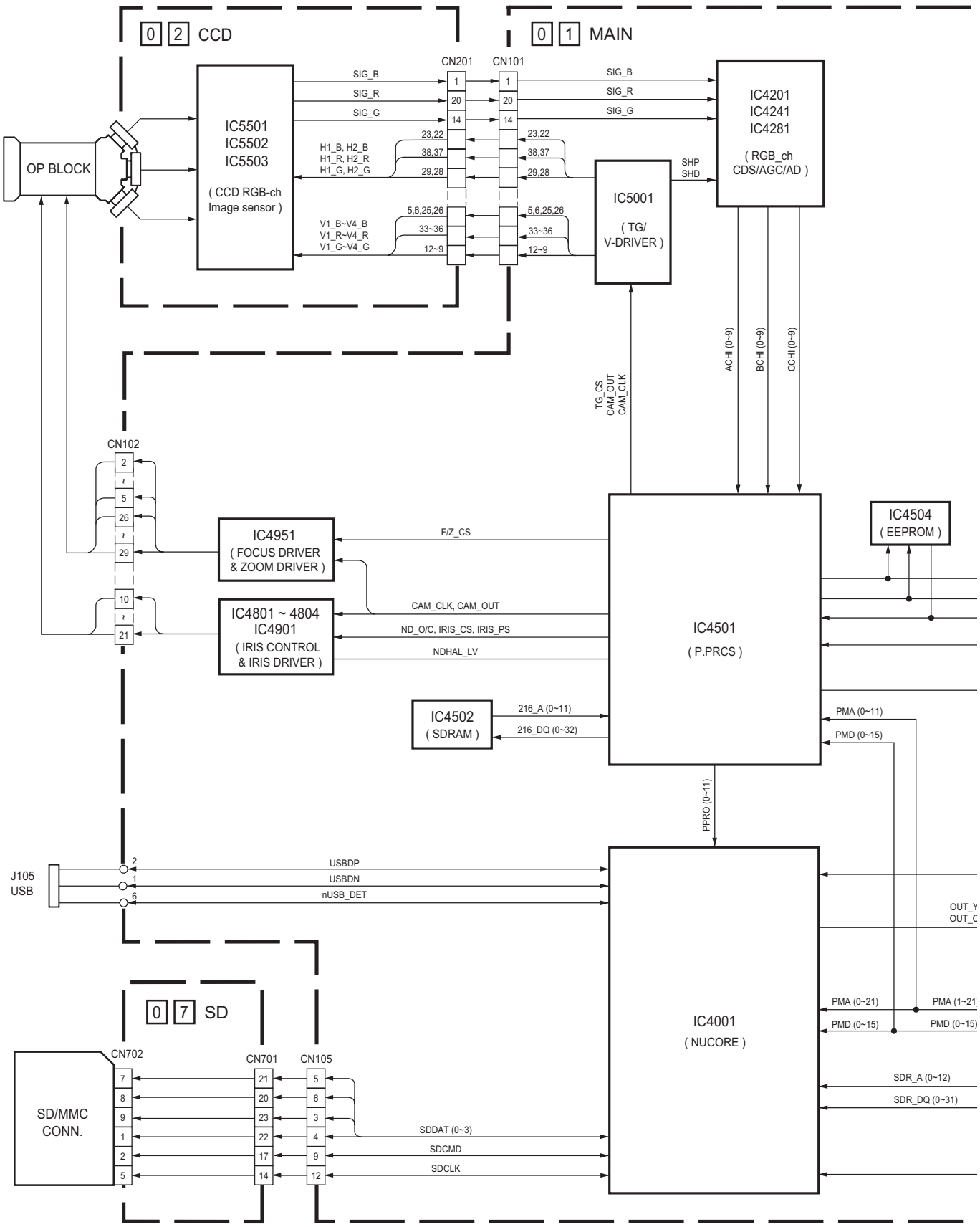


models. Please check with the Parts List.

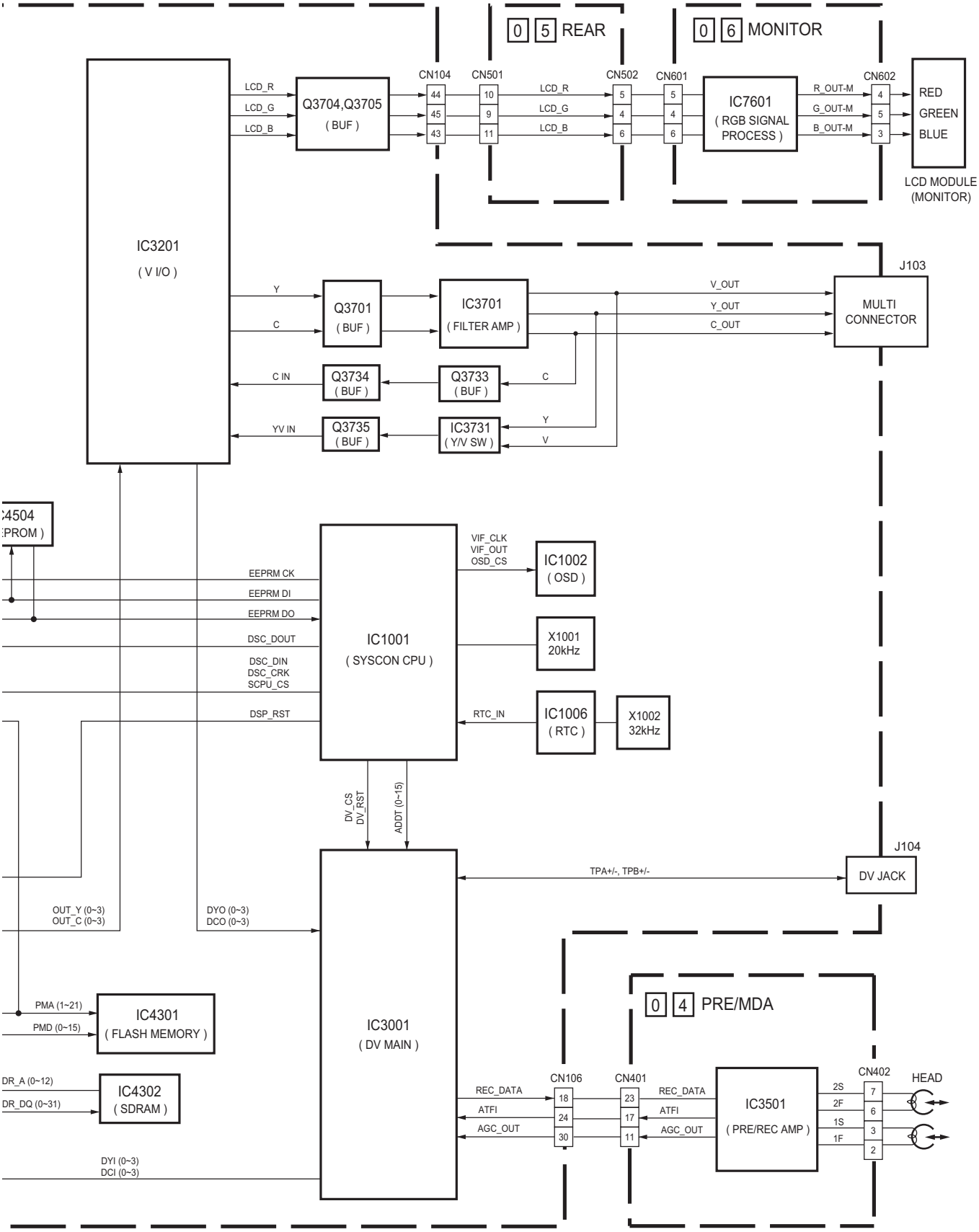


## ■ VIDEO BLOCK DIAGRAM

NOTES: There are circuits or functions that are not used according to the models. Ple



models. Please check with the Parts List.



# ■ VOLTAGE CHARTS

<MAIN>

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC1001 | - | - |
| IC1002 | | |
| 1 | 2.7 | 0 |
| 2 | 2.4 | 2.4 |
| 3 | 0.2 | 0.2 |
| 4 | 3.0 | 2.9 |
| 5 | 3.1 | 0 |
| 6 | 3.1 | 3.0 |
| 7 | 0 | 0 |
| 8 | 0 | 0 |
| 9 | 0 | 0 |
| 10 | 0 | 0 |
| 11 | 0 | 0 |
| 12 | 0 | 0 |
| 13 | 0 | 0 |
| 14 | 0 | 0 |
| 15 | 0 | 0 |
| 16 | 0 | 0 |
| 17 | 0 | 0 |
| 18 | 0 | 0 |
| 19 | 2.9 | 2.8 |
| 20 | 2.8 | 2.8 |
| IC1003 | | |
| 1 | 0 | 0 |
| 2 | 0 | 3.0 |
| 3 | 0 | 0 |
| 4 | 0 | 3.0 |
| 5 | 0 | 3.0 |
| IC1004 | | |
| 1 | 1.4 | 1.3 |
| 2 | 0 | 0 |
| 3 | 1.3 | 1.2 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| IC1006 | | |
| 1 | 0 | 0 |
| 2 | 3.0 | 2.9 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| 6 | 0.5 | 0.3 |
| 7 | 0.2 | 0.5 |
| 8 | 3.0 | 2.5 |
| IC1007 | | |
| 1 | 0 | 0 |
| 2 | 0 | 2.5 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| IC1009 | | |
| 1 | 3.0 | 3.0 |
| 2 | 3.1 | 3.0 |
| 3 | 0 | 0 |
| 4 | 3.0 | 3.0 |
| 5 | 2.9 | 0 |
| IC1010 | | |
| 1 | 3.0 | 0 |
| 2 | 0 | 0 |
| 3 | 3.0 | 3.0 |
| 4 | 3.0 | 3.0 |
| 5 | 2.5 | 2.5 |
| IC1201 | | |
| 1 | 0 | 0 |
| 2 | 4.6 | 4.7 |
| 3 | 4.4 | 4.4 |
| IC2201 | | |
| 1 | 0 | 1.5 |
| 2 | 0 | 0 |
| 3 | 0 | 1.5 |
| 4 | 3.0 | 3.0 |
| 5 | 3.1 | 3.1 |
| 6 | 0 | 0 |
| 7 | 1.5 | 1.4 |
| 8 | 1.5 | 1.4 |
| 9 | 1.5 | 1.5 |
| 10 | 0 | 0 |
| 11 | 2.8 | 2.8 |
| 12 | 3.0 | 2.9 |
| 13 | 1.5 | 1.5 |
| 14 | 1.5 | 0 |
| 15 | 0.3 | 0.2 |
| 16 | 0.3 | 0.2 |
| 17 | 0.2 | 0.3 |
| 18 | 0.2 | 0.2 |
| 19 | 3.1 | 3.1 |
| 20 | 0 | 0 |
| 21 | 0.9 | 0 |
| 22 | 1.6 | 1.5 |
| 23 | 1.0 | 0.5 |
| 24 | 0.8 | 1.5 |
| 25 | 0 | 0 |
| 26 | 0 | 0 |
| 27 | 4.8 | 4.8 |
| 28 | 0 | 0 |
| 29 | 2.4 | 2.4 |
| 30 | 0 | 0 |
| 31 | 3.1 | 3.0 |
| 32 | 1.5 | 1.5 |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| 33 | 0.4 | 1.5 |
| 34 | 0.4 | 1.5 |
| 35 | 0.1 | 1.5 |
| 36 | 1.5 | 1.5 |
| 37 | 1.5 | 1.5 |
| 38 | 1.5 | 0 |
| 39 | 1.5 | 0 |
| 40 | 1.4 | 0.1 |
| 41 | 0 | 0 |
| 42 | 4.1 | 4.4 |
| 43 | 2.8 | 0 |
| 44 | 4.1 | 4.4 |
| 45 | 1.5 | 0.1 |
| 46 | 1.5 | 0 |
| 47 | 1.5 | 1.5 |
| 48 | 1.4 | 1.4 |
| IC3001 | - | - |
| IC3002 | | |
| 1 | 0 | 0.4 |
| 2 | 0 | 0.3 |
| 3 | 0 | 0 |
| 4 | 2.0 | 2.0 |
| 5 | 0 | 1.3 |
| 6 | 1.1 | 1.6 |
| 7 | 3.1 | 0.1 |
| 8 | 1.1 | 1.6 |
| IC3003 | | |
| 1 | 1.3 | 1.4 |
| 2 | 1.4 | 1.4 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 3.0 | 0 |
| IC3201 | - | - |
| IC3701 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 0 | 0 |
| 9 | 4.8 | 4.8 |
| 10 | 0 | 0 |
| 11 | 0 | 0 |
| 12 | 0 | 0 |
| 13 | 0 | 0 |
| 14 | 0.4 | 0.3 |
| 15 | 4.8 | 4.8 |
| 16 | 0 | 0 |
| IC3731 | | |
| 1 | 3.0 | 3.0 |
| 2 | 1.2 | 1.2 |
| 3 | 4.7 | 4.8 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 1.5 | 0 |
| IC4001 | - | - |
| IC4002 | | |
| 1 | 3.0 | 3.0 |
| 2 | 3.0 | 3.1 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 2.9 | 3.0 |
| IC4003 | | |
| 1 | 0 | 0 |
| 2 | 1.8 | 1.7 |
| 3 | 1.2 | 0.8 |
| 4 | 1.0 | 1.1 |
| 5 | 0 | 0 |
| IC4004 | | |
| 1 | 1.2 | 1.2 |
| 2 | 1.2 | 1.3 |
| 3 | 0 | 0 |
| 4 | 1.2 | 1.3 |
| 5 | 3.0 | 3.1 |
| IC4005 | | |
| 1 | 4.8 | 4.8 |
| 2 | 0 | 0 |
| 3 | 4.7 | 4.8 |
| 4 | 1.2 | 1.2 |
| 5 | 3.3 | 3.3 |
| IC4201 | | |
| 1 | 0 | 3.1 |
| 2 | 0.3 | 0 |
| 3 | 0.1 | 0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 0 | 0 |
| 9 | 1.0 | 0 |
| 10 | 0 | 3.1 |
| 11 | 0 | 0 |
| 12 | 1.4 | 0 |
| 13 | 3.0 | 3.0 |
| 14 | 2.5 | 0 |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| 15 | 2.9 | 0 |
| 16 | 2.1 | 0 |
| 17 | 0 | 0 |
| 18 | 0 | 0 |
| 19 | 3.0 | 3.0 |
| 20 | 1.9 | 0 |
| 21 | 1.9 | 0 |
| 22 | 0 | 0 |
| 23 | 1.9 | 0 |
| 24 | 0 | 0 |
| 25 | 0 | 3.0 |
| 26 | 0 | 0 |
| 27 | 0.1 | 0 |
| 28 | 1.4 | 0 |
| 29 | 1.9 | 0 |
| 30 | 0.9 | 0 |
| 31 | 3.0 | 3.1 |
| 32 | 0 | 0 |
| 33 | 3.0 | 2.9 |
| 34 | 0.6 | 0.1 |
| 35 | 2.4 | 3.0 |
| 36 | 1.2 | 0 |
| IC4241 | | |
| 1 | 0.7 | 0 |
| 2 | 0.3 | 0 |
| 3 | 0.2 | 0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 0 | 0 |
| 9 | 1.0 | 3.1 |
| 10 | 2.9 | 3.0 |
| 11 | 0 | 0 |
| 12 | 1.3 | 0 |
| 13 | 3.0 | 3.0 |
| 14 | 2.6 | 0 |
| 15 | 2.9 | 0 |
| 16 | 2.1 | 0 |
| 17 | 2.1 | 0 |
| 18 | 0 | 0 |
| 19 | - | - |
| 20 | - | - |
| 21 | - | - |
| 22 | - | - |
| 23 | - | - |
| 24 | - | - |
| 25 | - | - |
| 26 | - | - |
| 27 | - | - |
| 28 | 1.4 | 0 |
| 29 | 1.9 | 0 |
| 30 | 0.8 | 0 |
| 31 | 2.9 | 3.1 |
| 32 | 0 | 0 |
| 33 | 3.0 | 3.0 |
| 34 | 1.2 | 0.3 |
| 35 | 2.9 | 3.0 |
| 36 | 1.1 | 0 |
| IC4281 | | |
| 1 | 0.7 | 0 |
| 2 | 0.4 | 0 |
| 3 | 0.1 | 0 |
| 4 | 0 | 0 |
| 5 | 0.1 | 0 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 0 | 0 |
| 9 | 1.0 | 0 |
| 10 | 3.0 | 3.1 |
| 11 | 0 | 0 |
| 12 | 1.3 | 0 |
| 13 | 3.0 | 3.1 |
| 14 | 2.6 | 0 |
| 15 | 2.9 | 0 |
| 16 | 2.2 | 0 |
| 17 | 2.1 | 0 |
| 18 | 0 | 0 |
| 19 | 3.0 | 3.1 |
| 20 | 1.9 | 0 |
| 21 | 1.9 | 0 |
| 22 | 1.9 | 1.5 |
| 23 | 2.0 | 0 |
| 24 | 1.2 | 0 |
| 25 | 3.0 | 3.0 |
| 26 | 0 | 0 |
| 27 | 0.1 | 0 |
| 28 | 1.4 | 0 |
| 29 | 1.9 | 0 |
| 30 | 0.9 | 0 |
| 31 | 3.0 | 3.1 |
| 32 | 0 | 0 |
| 33 | 3.0 | 3.0 |
| 34 | 0.6 | 0.2 |
| 35 | 0 | 3.0 |
| 36 | 1.2 | 3.0 |
| IC4301 | - | - |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC4302 | - | - |
| IC4501 | - | - |
| IC4502 | - | - |
| IC4503 | - | - |
| IC4504 | | |
| 1 | 3.0 | 0 |
| 2 | 3.1 | 3.1 |
| 3 | 3.0 | 3.0 |
| 4 | 0.5 | 0 |
| 5 | 2.7 | 0 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 0 | 3.0 |
| IC4801 | | |
| 1 | 2.7 | 2.7 |
| 2 | 2.3 | 2.3 |
| 3 | 2.3 | 2.3 |
| 4 | 0 | 0.1 |
| 5 | 2.3 | 2.2 |
| 6 | 2.3 | 0 |
| 7 | 0 | 0.1 |
| 8 | 0 | 4.5 |
| IC4802 | | |
| 1 | 0.8 | 0.8 |
| 2 | 0 | 0.1 |
| 3 | 0 | 0.1 |
| 4 | 0 | 0 |
| 5 | 1.8 | 2.3 |
| 6 | 0 | 2.3 |
| 7 | 0.3 | 2.5 |
| 8 | 0 | 4.5 |
| IC4803 | | |
| 1 | 0 | 3.2 |
| 2 | 0.6 | 2.6 |
| 3 | 0 | 3.0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 4.5 | 0 |
| IC4804 | | |
| 1 | 2.1 | 2.8 |
| 2 | 2.3 | 2.3 |
| 3 | 2.3 | 2.2 |
| 4 | 0 | 0 |
| 5 | 0 | 2.3 |
| 6 | 2.3 | 2.3 |
| 7 | 2.3 | 1.7 |
| 8 | 4.5 | 4.5 |
| IC4805 | | |
| 1 | 4.8 | 4.7 |
| 2 | 0 | 0 |
| 3 | 1.2 | 1.3 |
| 4 | 0 | 3.1 |
| 5 | 0 | 4.8 |
| IC4851 | | |
| 1 | 4.8 | 4.8 |
| 2 | 0 | 0 |
| 3 | 1.3 | 1.1 |
| 4 | 4.6 | 0 |
| 5 | 0 | 0 |
| IC4901 | - | - |
| IC4951 | | |
| 1 | 1.5 | 1.5 |
| 2 | 0 | 0 |
| 3 | 1.5 | 1.5 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 3.1 | 3.1 |
| 7 | 0 | 0 |
| 8 | 3.0 | 3.0 |
| 9 | 0 | 0.2 |
| 10 | 2.9 | 3.0 |
| 11 | 1.4 | 1.5 |
| 12 | 3.0 | 3.0 |
| 13 | 4.8 | 4.8 |
| 14 | 0 | 0 |
| 15 | 0 | 0 |
| 16 | 0 | 0 |
| 17 | 3.0 | 0.6 |
| 18 | - | - |
| 19 | - | - |
| 20 | - | - |
| 21 | 0 | 0 |
| 22 | 0.4 | 0 |
| 23 | 0.4 | 0 |
| 24 | 0 | 0 |
| 25 | 0.1 | 4.8 |
| 26 | 4.8 | 0 |
| 27 | 0 | 0 |
| 28 | 0 | 0 |
| 29 | 0 | 0 |
| 30 | 0 | 0 |
| 31 | 0 | 0 |
| 32 | 0 | 0 |
| 33 | 0 | 0 |
| 34 | 0 | 0 |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| 35 | 4.8 | 4.8 |
| 36 | 0.2 | 0.6 |
| 37 | 0 | 0 |
| 38 | 0 | 0.3 |
| 39 | 0 | 0.3 |
| 40 | 0 | 0 |
| 41 | 0 | 0 |
| 42 | 0 | 0 |
| 43 | 4.7 | 4.8 |
| 44 | 0 | 0.2 |
| 45 | 0 | 0 |
| 46 | 0 | 0 |
| 47 | 0 | 0 |
| 48 | 4.7 | 0 |
| IC5001 | - | - |
| IC5801 | | |
| 1 | 1.3 | 0 |
| 2 | 0 | 0 |
| 3 | 1.3 | 1.3 |
| 4 | 1.2 | 1.2 |
| 5 | 3.0 | 3.1 |
| IC5802 | | |
| 1 | 0 | 0.5 |
| 2 | 0.5 | 0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| IC5852 | | |
| 1 | 1.3 | 1.0 |
| 2 | 0 | 0 |
| 3 | 3.0 | 3.0 |
| 4 | 1.2 | 1.2 |
| Q1001 | | |
| E | 3.0 | 3.0 |
| C | 3.0 | 3.0 |
| B | 3.0 | 3.0 |
| Q1002 | | |
| 1 | 0 | 0 |
| 2 | 3.0 | 3.0 |
| 3 | 0 | 3.0 |
| 4 | 2.9 | 2.8 |
| 5 | 0 | 0 |
| Q1003 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 3.0 | 3.0 |
| 4 | -0.2 | -0.2 |
| 5 | 3.0 | 2.9 |
| Q1004 | | |
| 1 | 0 | 0 |
| 2 | 2.8 | 0 |
| 3 | 3.0 | 0 |
| 4 | 3.0 | 2.9 |
| 5 | 0 | 0 |
| Q1005 | | |
| E | 0 | 0 |
| C | 0 | 0 |
| B | 0 | 0 |
| Q1007 | | |
| E | 0 | 0 |
| C | 3.0 | 3.1 |
| B | 0.5 | 0.5 |
| Q1008 | | |
| E | 0 | 0 |
| C | 0 | 0 |
| B | 0 | 0 |
| Q1009 | | |
| S | 0 | 0 |
| D | 3.0 | 3.0 |
| G | 3.0 | 3.0 |
| Q1010 | | |
| E | 0 | 0 |
| C | 3.0 | 3.0 |
| B | 0 | 0 |
| Q1011 | | |
| 1 | 0 | 0 |
| 2 | 3.0 | 0 |
| 3 | 3.0 | 3.0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| Q1012 | | |
| E | 0 | 0 |
| C | 0.2 | 0 |
| B | 0 | 0 |
| Q1191 | | |
| E | 0 | 0 |
| C | 4.8 | 4.8 |
| B | 0 | 0 |
| Q2001 | | |
| E | 0 | 0 |
| C | 0 | 2.9 |
| B | 0 | 0 |
| Q2201 | | |
| E | 0 | 0 |
| C | 1.5 | 1.5 |
| B | 0 | 0 |
| Q2401 | | |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| E | 4.1 | 4.4 |
| C | 4.8 | 4.8 |
| B | 4.7 | 4.8 |
| Q2403 | | |
| E | 3.1 | 0 |
| C | 4.7 | 4.8 |
| B | 3.7 | 3.7 |
| Q2701 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| Q2702 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| Q3701 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 0.6 | 0.6 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 1.3 |
| Q3702 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 0 | 4.4 |
| 5 | 4.4 | 0 |
| 6 | 0 | 4.8 |
| Q3704 | | |
| E | 0.8 | 0.7 |
| C | 0 | 0 |
| B | 0.2 | 0.1 |
| Q3705 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 0.8 | 0.7 |
| 4 | 0 | 0 |
| 5 | 0.2 | 0.1 |
| 6 | 0 | 0.7 |
| Q3706 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| Q3731 | | |
| E | 0 | 0 |
| C | 4.8 | 4.8 |
| B | 0 | 0 |
| Q3733 | | |
| 1 | 2.5 | 0 |
| 2 | 2.4 | 2.4 |
| 3 | 1.8 | 1.8 |
| 4 | 0 | 0 |
| 5 | 4.2 | 0 |
| 6 | 0.1 | 4.8 |
| Q3734 | | |
| E | 2.3 | 2.3 |
| C | 4.8 | 4.8 |
| B | 2.9 | 2.9 |
| Q3735 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 4.7 | 4.8 |
| 5 | 0.9 | 0.1 |
| 6 | 1.4 | 1.5 |
| Q4001 | | |
| E | 0 | 0 |
| C | 0.2 | 0.2 |
| B | 0 | 0 |
| Q4002 | | |
| E | 1.7 | 1.7 |
| C | 1.1 | 1.2 |
| B | 1.0 | 1.0 |
| Q4003 | | |
| E | 0 | 0 |
| C | 0 | 0 |
| B | 1.7 | 1.4 |
| Q4801 | | |
| E | 0 | 0.1 |
| C | 1.9 | 1.8 |
| B | 0.8 | 0.8 |
| Q4951 | | |
| E | 0 | 0 |
| C | 3.5 | 3.6 |
| B | 0 | 0 |

<CCD>

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC5501 | | |
| 1 | -7.2 | 0 |
| 2 | -0.1 | 0 |
| 3 | -0.4 | 0 |
| 4 | -7.1 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 0 |
| 7 | 15.0 | 0 |
| 8 | 10.8 | 0 |
| 9 | 0 | 0 |
| 10 | 12.1 | 11.7 |
| 11 | 1.5 | 0 |
| 12 | 0 | 0 |
| 13 | 9.3 | 0 |
| 14 | 0 | 0 |
| IC5502 | | |
| 1 | -7.2 | 0 |
| 2 | -0.2 | 0 |
| 3 | -0.3 | 0 |
| 4 | -7.1 | 0 |
| 5 | 0 | 0 |
| 6 | 9.6 | 9.6 |
| 7 | 14.9 | 15.0 |
| 8 | 10.6 | 9.9 |
| 9 | 0 | 0 |
| 10 | 11.9 | 11.7 |
| 11 | 1.2 | 0 |
| 12 | 1.0 | 0 |
| 13 | 9.1 | 9.1 |
| 14 | -7.5 | -7.6 |
| IC5503 | | |
| 1 | -7.2 | 0 |
| 2 | -0.2 | 0 |
| 3 | -0.2 | 0 |
| 4 | -7.1 | 0 |
| 5 | 0 | 0 |
| 6 | 0 | 10.0 |
| 7 | 14.8 | 14.9 |
| 8 | 10.9 | 10.2 |
| 9 | 0 | 0 |
| 10 | 12.1 | 11.8 |
| 11 | 0 | 0 |
| 12 | 0 | 0 |
| 13 | 9.5 | 9.5 |
| 14 | -7.6 | -7.7 |
| Q5502 | | |
| E | 7.1 | 7.0 |
| C | 10.7 | 10.0 |
| B | 7.9 | 7.9 |
| Q5503 | | |
| E | 0 | 0 |
| C | 9.8 | 9.8 |
| B | 0 | 0 |
| Q5505 | | |
| E | 7.1 | 7.2 |
| C | 10.8 | 10.1 |
| B | 7.9 | 7.9 |
| Q5506 | | |
| E | 0 | 0 |
| C | 9.6 | 9.6 |
| B | 0 | 0 |
| Q5508 | | |
| E | 7.2 | 7.2 |
| C | 10.9 | 10.2 |
| B | 7.9 | 7.9 |
| Q5509 | | |
| E | 0 | 0 |
| C | 10.0 | 0 |
| B | 0 | 0 |

<REG>

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC6001 | | |
| 1 | 0 | 0 |
| 2 | 7.9 | 8.0 |
| 3 | 6.8 | 6.9 |
| 4 | 9.3 | 9.3 |
| 5 | 8.1 | 8.2 |
| 6 | 8.3 | 8.3 |
| 7 | 9.6 | 9.6 |
| 8 | 8.0 | 8.1 |
| 9 | 6.1 | 6.1 |
| 10 | 0 | 0 |
| 11 | 10.7 | 10.7 |
| 12 | 11.8 | 11.8 |
| 13 | 8.4 | 8.4 |
| 14 | 1.3 | 1.2 |
| 15 | 0.6 | 0.6 |
| 16 | 1.0 | 1.0 |
| 17 | 0 | 0 |
| 18 | 3.2 | 3.2 |
| 19 | 10.9 | 10.9 |
| 20 | 10.9 | 10.9 |
| 21 | 0 | 0 |
| 22 | 0 | 0 |
| 23 | 3.0 | 3.0 |
| 24 | 3.0 | 3.0 |
| 25 | 3.0 | 3.0 |
| 26 | 0 | 0 |
| 27 | 3.0 | 3.1 |
| 28 | 0 | 3.0 |
| 29 | 0.1 | 1.0 |
| 30 | 0 | 0 |
| 31 | 0 | 0 |
| 32 | 0 | 0 |
| 33 | 0 | 0 |
| 34 | 2.7 | 2.7 |
| 35 | 0 | 0 |
| 36 | 0 | 0 |
| 37 | 0 | 1.0 |
| 38 | 0 | 0.9 |
| 39 | 0 | 1.0 |
| 40 | 0 | 0.8 |
| 41 | 0 | 0 |
| 42 | 0 | 0 |
| 43 | 0.6 | 0 |
| 44 | 0 | 0 |
| 45 | 0 | 0 |
| 46 | 0.5 | 0.7 |
| 47 | 1.0 | 0 |
| 48 | 0.7 | 0 |
| 49 | 1.0 | 1.0 |
| 50 | 0.8 | 0.8 |
| 51 | 0.8 | 0.8 |
| 52 | 0.9 | 1.0 |
| 53 | 0 | 0 |
| 54 | 0 | 0 |
| 55 | 1.0 | 1.0 |
| 56 | 3.0 | 3.1 |
| 57 | 0 | 0 |
| 58 | 2.9 | 2.9 |
| 59 | 2.7 | 2.7 |
| 60 | 1.1 | 1.1 |
| 61 | 15.0 | 15.0 |
| 62 | 10.7 | 10.7 |
| 63 | 1.3 | 1.3 |
| 64 | 10.9 | 11.0 |
| IC6002 | | |
| 1 | 3.3 | 0 |
| 2 | 10.9 | 10.9 |
| 3 | 0 | 0 |
| Q6101 | | |
| S | 7.9 | 8.1 |
| D | 11.0 | 11.0 |
| G | 3.2 | 3.1 |
| Q6102 | | |
| S | 6.8 | 0 |
| D | 0 | 0 |
| G | 3.2 | 3.1 |
| Q6103 | | |
| S | 0 | 0.1 |
| D | 0 | 3.0 |
| G | 2.5 | 2.5 |
| Q6201 | | |
| S | 9.3 | 0 |
| D | 11.0 | 11.0 |
| G | 0 | 1.9 |
| Q6202 | | |
| S | 8.2 | 0 |
| D | 0 | 0 |
| G | 1.9 | 1.9 |
| Q6301 | | |
| 1 | 9.3 | 8.3 |
| 2 | 11.0 | 11.0 |
| 3 | 0 | 0 |
| 4 | 2.7 | 2.9 |
| 5 | 2.7 | 2.9 |
| 6 | 2.7 | 2.9 |
| Q6401 | | |

| MODE PIN NO. | REC | PLA |
|---|---|---|
| 1 | 11.0 | 9. |
| 2 | 11.0 | 10. |
| 3 | 0 | |
| 4 | 0.6 | 1. |
| 5 | 0.6 | 1. |
| 6 | 0.7 | 1. |
| Q6501 | | |
| S | 8.1 | |
| D | 11.0 | 11. |
| G | 0 | |
| Q6502 | | |
| 1 | -15.2 | |
| 2 | -7.5 | -7. |
| 3 | -7.0 | -7. |
| 4 | -14.6 | -14. |
| 5 | -7.6 | -7. |
| 6 | -7.1 | -7. |
| Q6503 | | |
| E | 0 | -15. |
| C | -7.6 | |
| B | 0 | -14. |
| Q6701 | | |
| S | 6.2 | 6. |
| D | 11.0 | 10. |
| G | 4.8 | 4. |
| Q6702 | | |
| S | 0 | 9. |
| D | 0 | |
| G | 0 | |
| Q6703 | | |
| S | 0 | |
| D | 4.8 | 4. |
| G | 4.8 | 4. |

| ODE N NO. | REC | PLAY |
|---|---|---|
| 1 | 11.0 | 9.6 |
| 2 | 11.0 | 10.9 |
| 3 | 0 | 0 |
| 4 | 0.6 | 1.0 |
| 5 | 0.6 | 1.1 |
| 6 | 0.7 | 1.1 |
| 6501 | | |
| S | 8.1 | 0 |
| D | 11.0 | 11.0 |
| G | 0 | 0 |
| 6502 | | |
| 1 | -15.2 | 0 |
| 2 | -7.5 | -7.6 |
| 3 | -7.0 | -7.2 |
| 4 | -14.6 | -14.9 |
| 5 | -7.6 | -7.7 |
| 6 | -7.1 | -7.1 |
| 6503 | | |
| E | 0 | -15.3 |
| C | -7.6 | 0 |
| B | 0 | -14.7 |
| 6701 | | |
| S | 6.2 | 6.1 |
| D | 11.0 | 10.9 |
| G | 4.8 | 4.9 |
| 6702 | | |
| S | 0 | 9.8 |
| D | 0 | 0 |
| G | 0 | 0 |
| 6703 | | |
| S | 0 | 0 |
| D | 4.8 | 4.8 |
| G | 4.8 | 4.8 |

<PRE/MDA>

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC1601 | | |
| 1 | 0 | 0 |
| 2 | 0.2 | 0.5 |
| 3 | 0.5 | 0.2 |
| 4 | 0 | 0 |
| 5 | 0.4 | 0.5 |
| 6 | 0 | 0 |
| 7 | 0 | 0 |
| 8 | 1.5 | 1.5 |
| 9 | 1.5 | 1.5 |
| 10 | 1.5 | 1.5 |
| 11 | 1.5 | 1.5 |
| 12 | 1.5 | 1.5 |
| 13 | 1.5 | 1.5 |
| 14 | 2.7 | 2.7 |
| 15 | 1.1 | 1.2 |
| 16 | 1.5 | 1.5 |
| 17 | 1.5 | 1.5 |
| 18 | 0 | 1.4 |
| 19 | 1.5 | 1.2 |
| 20 | 1.5 | 1.5 |
| 21 | 3.0 | 3.0 |
| 22 | 0.7 | 0.7 |
| 23 | 0.2 | 0.2 |
| 24 | 0 | 1.4 |
| 25 | 1.4 | 1.4 |
| 26 | 10.9 | 5.7 |
| 27 | 0 | 0 |
| 28 | 0 | 2.9 |
| 29 | 0 | 0.7 |
| 30 | 1.3 | 1.3 |
| 31 | 0.7 | 0 |
| 32 | 0.9 | 0.9 |
| 33 | 1.3 | 1.3 |
| 34 | 0 | 1.3 |
| 35 | 1.3 | 1.3 |
| 36 | 0 | 0 |
| 37 | 1.3 | 1.3 |
| 38 | 0 | 0 |
| 39 | 1.5 | 1.5 |
| 40 | 0 | 0 |
| 41 | 0 | 0 |
| 42 | 0 | 0 |
| 43 | 0 | 0 |
| 44 | 0 | 0 |
| 45 | 4.8 | 4.8 |
| 46 | 0 | 1.5 |
| 47 | 1.5 | 1.5 |
| 48 | 1.5 | 0 |
| 49 | 1.5 | 1.5 |
| 50 | 0 | 0 |
| 51 | 13.9 | 0 |
| 52 | 2.3 | 2.3 |
| 53 | 12.4 | 12.5 |
| 54 | 0 | 0 |
| 55 | 0 | 0 |
| 56 | 0 | 0 |
| 57 | 3.0 | 3.0 |
| 58 | 2.9 | 2.9 |
| 59 | 0 | 0 |
| 60 | 1.1 | 1.1 |
| 61 | 0.2 | 0.2 |
| 62 | 1.5 | 1.5 |
| 63 | 0.7 | 0.7 |
| 64 | 0.9 | 0.9 |
| IC1701 | | |
| 1 | 3.6 | 0 |
| 2 | 1.4 | 1.5 |
| 3 | 1.5 | 1.5 |
| 4 | 0 | 0 |
| 5 | 1.5 | 1.4 |
| 6 | 1.4 | 1.4 |
| 7 | 3.3 | 3.4 |
| 8 | 4.8 | 4.8 |
| IC1702 | | |
| 1 | 3.0 | 3.0 |
| 2 | 1.1 | 1.4 |
| 3 | 3.5 | 3.6 |
| 4 | 0 | 0 |
| 5 | 3.4 | 3.6 |
| 6 | 1.5 | 1.5 |
| 7 | 3.1 | 3.0 |
| 8 | 4.8 | 4.8 |
| IC3501 | | |
| 1 | - | - |
| 2 | - | - |
| 3 | - | - |
| 4 | - | - |
| 5 | - | - |
| 6 | - | - |
| 7 | - | - |
| 8 | - | - |
| 9 | - | - |
| 10 | - | - |
| 11 | - | - |
| 12 | - | - |
| 13 | - | - |

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| 14 | - | - |
| 15 | - | - |
| 16 | - | - |
| 17 | - | - |
| 18 | - | - |
| 19 | - | - |
| 20 | - | - |
| 21 | - | - |
| 22 | - | - |
| 23 | - | - |
| 24 | - | - |
| 25 | - | - |
| 26 | - | - |
| 27 | - | - |
| 28 | - | - |
| 29 | - | - |
| 30 | - | - |
| 31 | - | - |
| 32 | - | - |
| 33 | - | - |
| 34 | - | - |
| 35 | - | - |
| 36 | - | - |
| 37 | - | - |
| 38 | - | - |
| 39 | - | - |
| 40 | - | - |
| 41 | - | - |
| 42 | - | - |
| 43 | - | - |
| 44 | - | - |
| 45 | - | - |
| 46 | - | - |
| 47 | - | - |
| 48 | - | - |
| 49 | 4.3 | 0 |
| 50 | 0 | 0 |
| 51 | 1.2 | 0 |
| 52 | 0.8 | 0 |
| 53 | 0 | 0 |
| 54 | 3.2 | 0 |
| 55 | 2.4 | 0 |
| 56 | 1.1 | 1.1 |
| 57 | 2.5 | 0 |
| 58 | 2.5 | 1.3 |
| 59 | 0 | 0 |
| 60 | 1.3 | 1.2 |
| 61 | 0 | 0 |
| 62 | 2.5 | 1.9 |
| 63 | 2.5 | 0 |
| 64 | 2.5 | 0 |
| IC3502 | | |
| 1 | 1.3 | 0 |
| 2 | 1.3 | 0 |
| 3 | 0 | 0 |
| 4 | 0.5 | 3.1 |
| 5 | 3.0 | 3.0 |
| Q1601 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 4.8 | 4.8 |
| 4 | 0 | 0 |
| 5 | 4.8 | 4.8 |
| Q3501 | | |
| E | 4.8 | 3.4 |
| C | 0 | 1.3 |
| B | 4.3 | 2.8 |

<REAR>

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC511 | | |
| 1 | 1.3 | 1.2 |
| 2 | 0 | 0 |
| 3 | 3.0 | 3.0 |
| 4 | 1.2 | 1.2 |
| IC512 | | |
| 1 | 0.5 | 0.2 |
| 2 | 0.5 | 0.2 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 3.0 | 3.0 |
| IC513 | | |
| 1 | 0 | 1.2 |
| 2 | 0 | 0 |
| 3 | 1.3 | 1.3 |
| 4 | 0.1 | 1.2 |
| 5 | 3.0 | 3.0 |

<MONITOR>

| MODE PIN NO. | REC | PLAY |
|---|---|---|
| IC7601 | | |
| 1 | 1.2 | 0 |
| 2 | 0 | 1.2 |
| 3 | 0 | 0 |
| 4 | 1.7 | 1.7 |
| 5 | 3.0 | 3.0 |
| 6 | 3.0 | 3.0 |
| 7 | 2.9 | 2.9 |
| 8 | 0 | 0 |
| 9 | 0 | 0 |
| 10 | 3.0 | 3.0 |
| 11 | 3.0 | 3.0 |
| 12 | 0 | 0 |
| 13 | 0 | 0 |
| 14 | 1.4 | 1.5 |
| 15 | 0 | 0 |
| 16 | 0 | 0 |
| 17 | 0 | 0 |
| 18 | 3.0 | 0 |
| 19 | 0.1 | 0.2 |
| 20 | 3.0 | 3.1 |
| 21 | 0 | 0 |
| 22 | 2.7 | 2.7 |
| 23 | 1.5 | 1.5 |
| 24 | 0 | 0 |
| 25 | 0 | 0 |
| 26 | 0 | 0 |
| 27 | 0.2 | 0.3 |
| 28 | 0 | 0.1 |
| 29 | 3.0 | 3.0 |
| 30 | 0 | 0 |
| 31 | 0 | 0 |
| 32 | 0 | 0 |
| 33 | 0 | 2.5 |
| 34 | 2.5 | 2.5 |
| 35 | 2.5 | 2.5 |
| 36 | 4.7 | 4.8 |
| 37 | 2.5 | 2.5 |
| 38 | 2.3 | 2.3 |
| 39 | 1.9 | 2.0 |
| 40 | 4.0 | 4.0 |
| 41 | 0 | 0 |
| 42 | 1.5 | 1.5 |
| 43 | 3.0 | 3.0 |
| 44 | 1.9 | 2.0 |
| 45 | 2.0 | 2.0 |
| 46 | 2.0 | 2.0 |
| 47 | 2.8 | 2.8 |
| 48 | 0 | 0 |
| IC7603 | | |
| 1 | 3.0 | 3.0 |
| 2 | 0 | 0 |
| 3 | 3.0 | 3.0 |
| Q7701 | | |
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 4.6 | 4.6 |
| 4 | 0 | 4.6 |
| 5 | 3.0 | 3.0 |
| 6 | 0 | 0 |
| Q7702 | | |
| E | -0.6 | -0.5 |
| C | 4.5 | 4.5 |
| B | 0 | 0 |
| Q7703 | | |
| E | -0.5 | -0.5 |
| C | 4.5 | 4.5 |
| B | 0 | 0 |

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(No.YF098)

Printed in Japan
VPT

# PARTS LIST

## SAFETY PRECAUTION

**Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.**

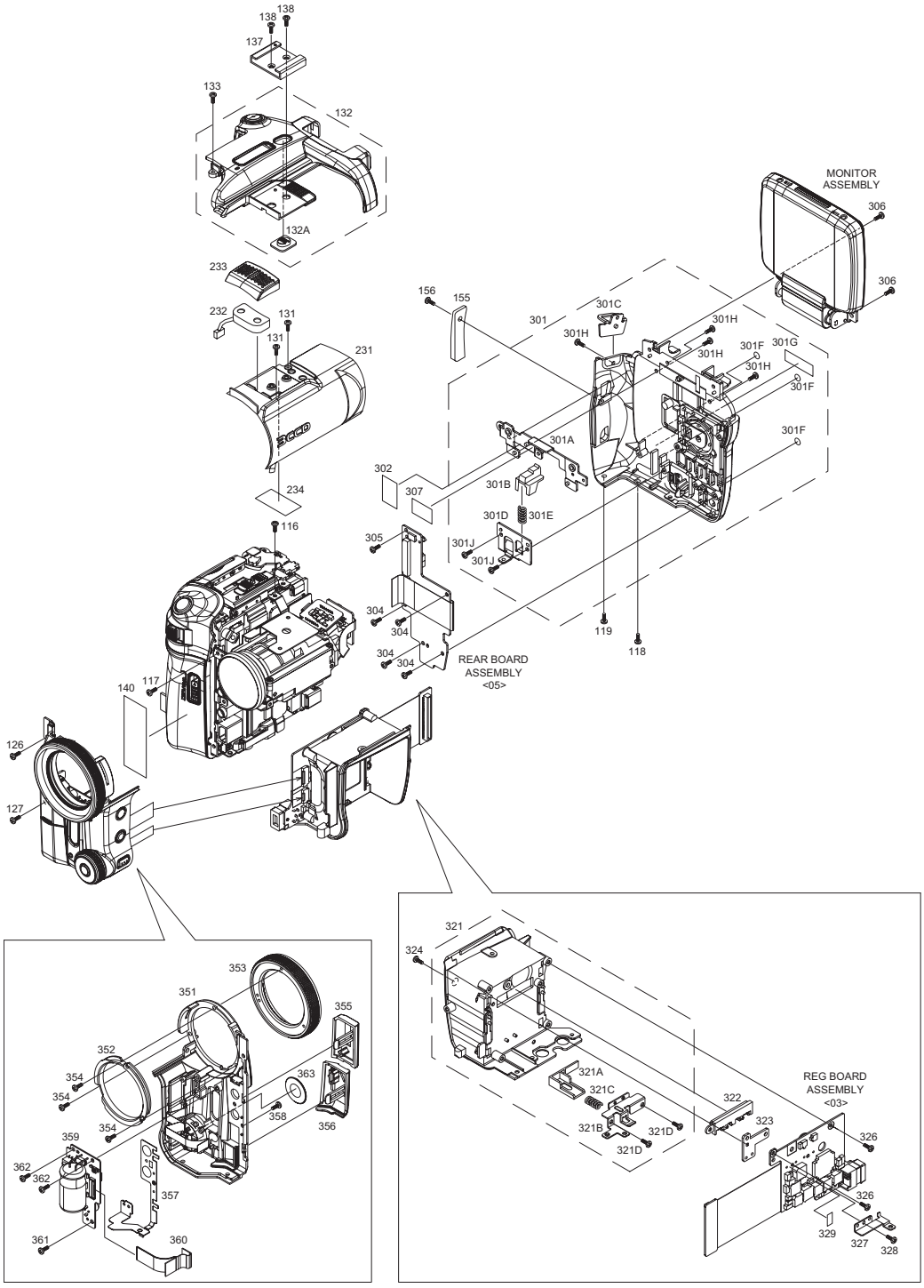
## BEWARE OF BOGUS PARTS

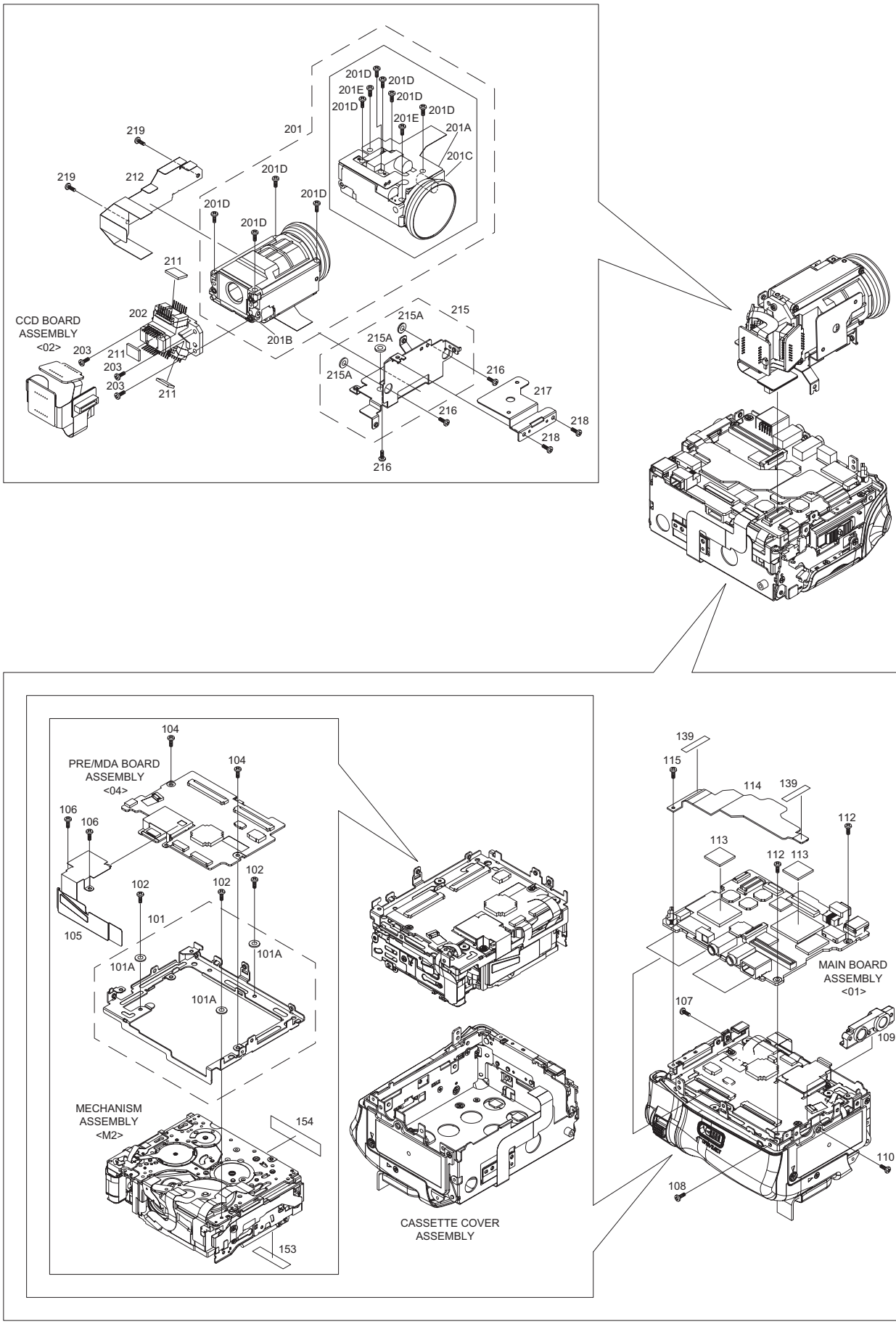
**Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.**

### 1. EXPLODED VIEW

### 1.1 FINAL ASSEMBLY<M1>

**The instruction manual to be provided with this product will differ according to the destination.**

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201D
201E
201A
201C
219
212
211
202
CCD BOARD
ASSEMBLY
<02>
203
201B
215
215A
216
217
218
PRE/MDA BOARD
ASSEMBLY
<04>
104
106
102
101
105
101A
MECHANISM
ASSEMBLY
<M2>
154
153
CASSETTE COVER
ASSEMBLY
139
115
114
112
113
MAIN BOARD
ASSEMBLY
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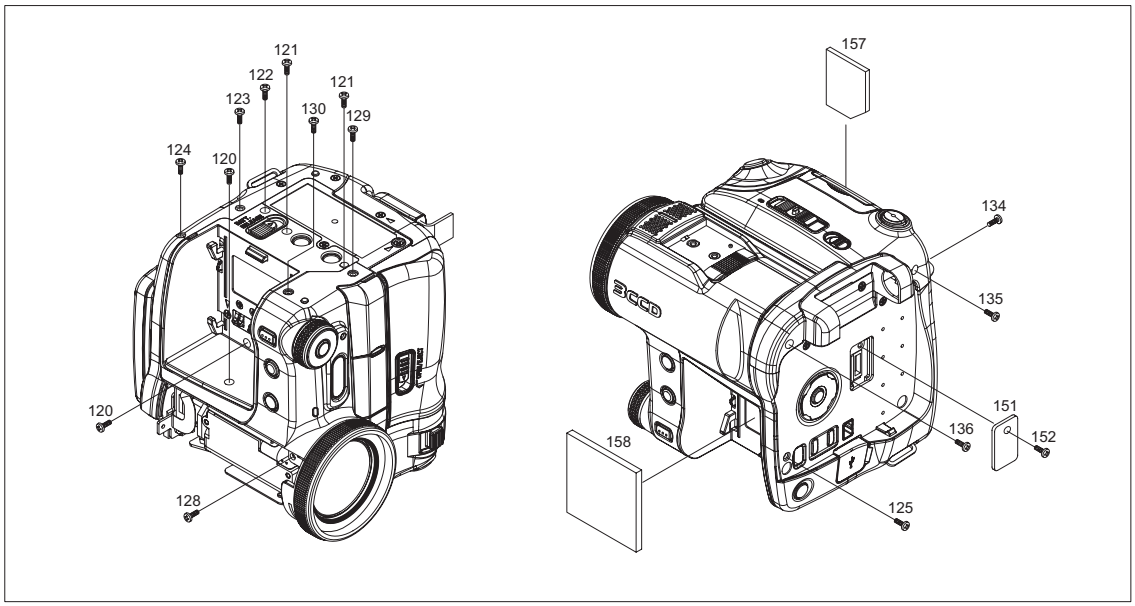
107
109
110
108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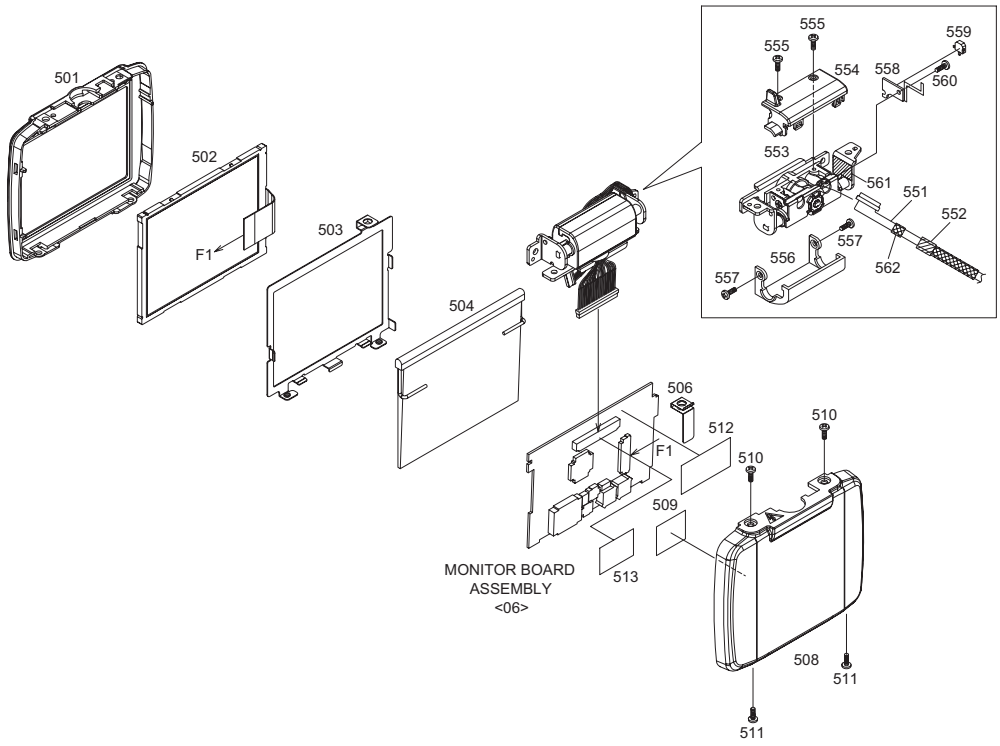
152
158
125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502
F1
503
504
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562
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506
512
F1
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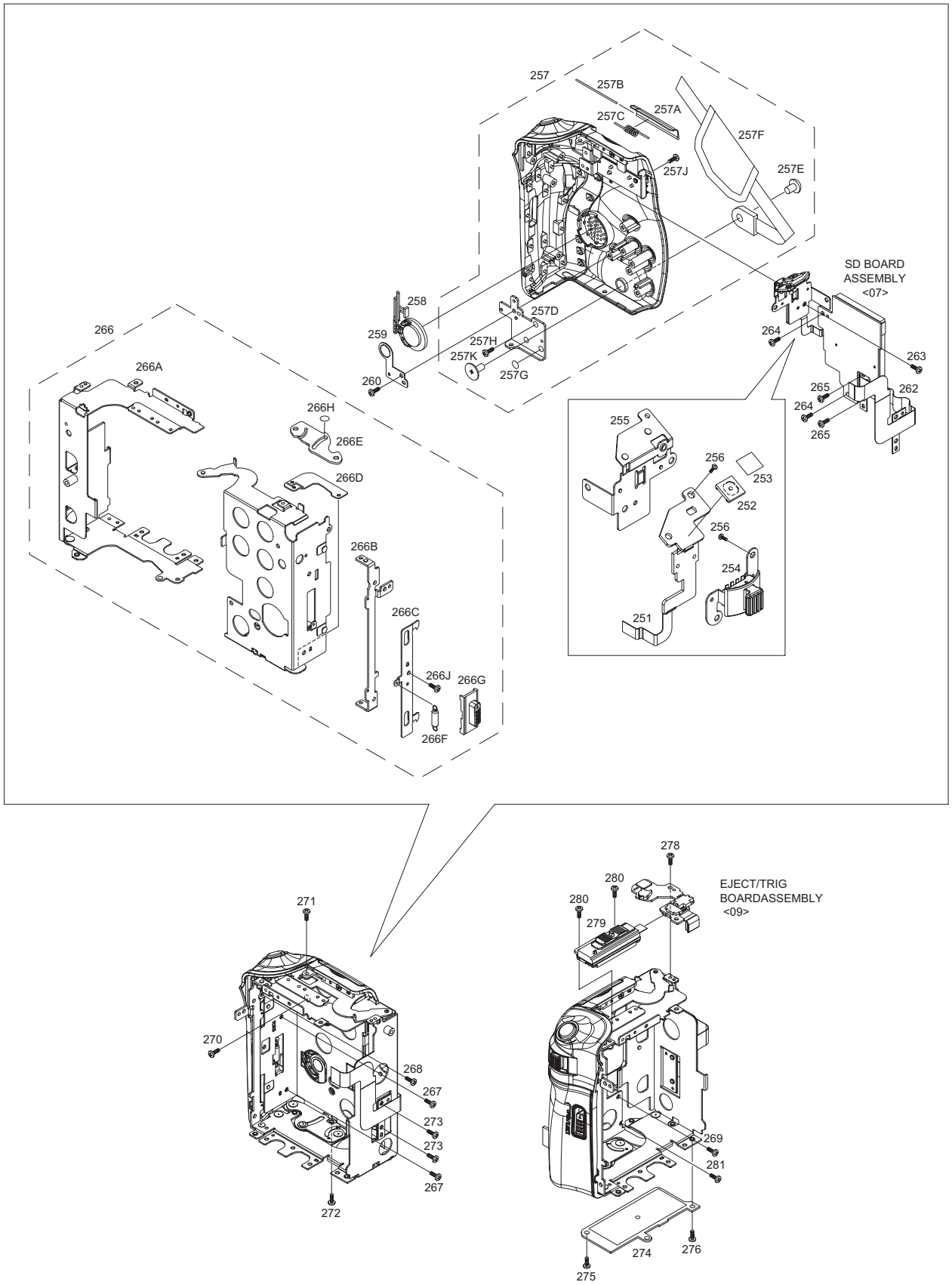
509
513
MONITOR BOARD
ASSEMBLY
<06>
508
511
511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257B
257A
257C
257F
257J
257E
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257D
259
257H
257K
257G
260
SD BOARD
ASSEMBLY
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263
265
262
264
265
266
266A
266H
266E
266D
266B
266C
266J
266G
266F
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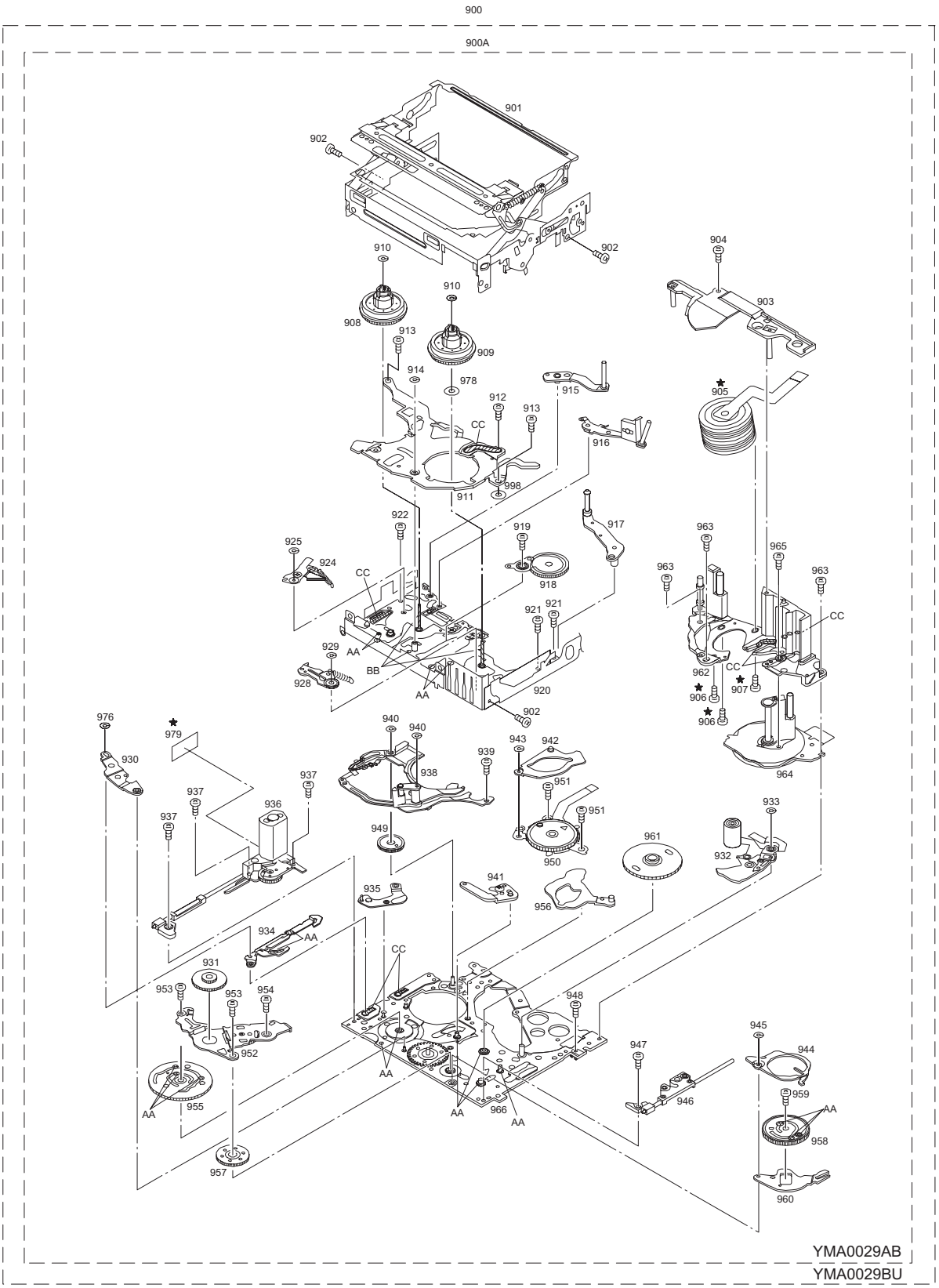
253
252
256
254
251
271
270
268
267
273
273
267
272
278
280
280
279
EJECT/TRIG
BOARDASSEMBLY
<09>
269
281
274
276
275

## 1.2 MECHANISM ASSEMBLY<M2>

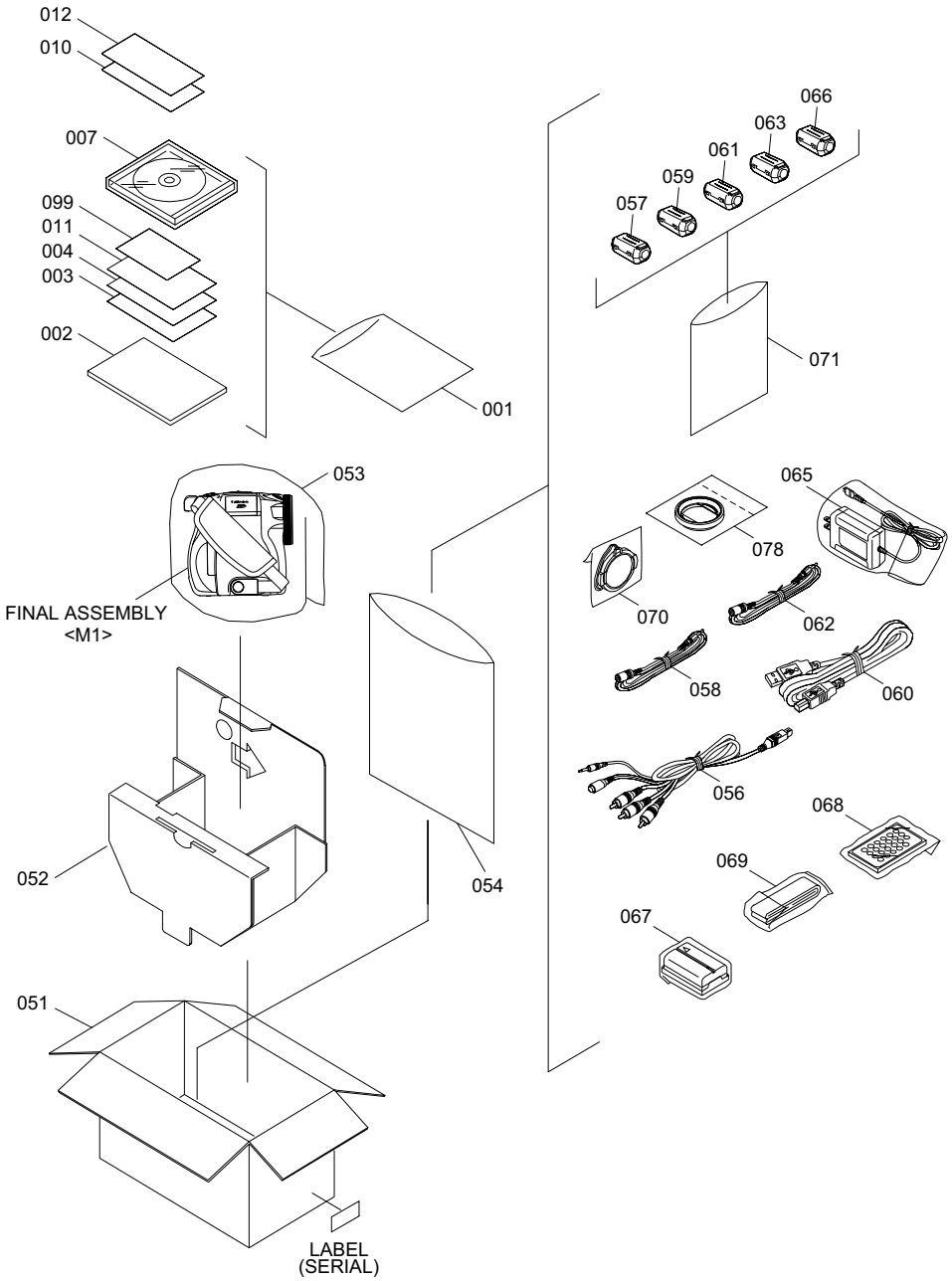



| Classification | Part No. | Symbol in drawing |
|---|---|---|
| Grease | KYODO-SH-JB | AA |
| Oil | YTU94027 | BB |
| Grease | JVS-306U | CC |

NOTE1: The section marked in AA, BB and CC indicate lubrication and greasing areas.

NOTE2: Mark ★ is not contained in 900A.

## 1.3 PACKING AND ACCESSORY ASSEMBLY <M5>



## 2. PARTS LIST

### FINAL ASSEMBLY <M1>

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 101 | LY34728-001A | BKT(MECHA)ASSY | | |
| 101A | LY42796-001A | BUSH | (x3) | |
| 102 | LY30032-002A | SPECIAL SCREW | MEBKT-MECH(x3) | |
| 104 | LY30031-063A | SPECIAL SCREW | MDAP-BKTME(x2) | |
| 105 | LY34059-001B | SHEILD COVER(PR) | | |
| 106 | LY30031-015A | SPECIAL SCREW | SHILD-MECH(x2) | |
| 107 | LY30031-063A | SPECIAL SCREW | EJECTP-ARM | |
| 108 | LY30031-063A | SPECIAL SCREW | BKTM-ARM(F) | |
| 109 | LY34733-001A | BASE | | |
| 110 | LY30031-0H9B | SPECIAL SCREW | BOTTM-BASE | |
| 112 | LY30031-063A | SPECIAL SCREW | MAINP-BKTM(x2) | |
| 113 | LY34951-001A | HEAT SHEET | (x2) | |
| 114 | LY34741-001B | HEAT SINK(MAIN) | | |
| 115 | LY30031-063A | SPECIAL SCREW | HSINK-ARM | |
| 116 | LY30031-063A | SPECIAL SCREW | OPBKT-ARMT | |
| 117 | LY30031-063A | SPECIAL SCREW | OPBKT-ARMF | |
| 118 | LY30031-0J1A | SPECIAL SCREW | RC-ARM(R) | |
| 119 | LY30031-0J1A | SPECIAL SCREW | RC-ARM(G) | |
| 120 | LY30031-0H9B | SPECIAL SCREW | BC-OPBKT(x2) | |
| 121 | LY30031-0H9B | SPECIAL SCREW | BC-BASE(x2) | |
| 122 | LY30031-0H9B | SPECIAL SCREW | BC-BKTME | |
| 123 | LY30031-0J1A | SPECIAL SCREW | RC-BC(BKT) | |
| 124 | LY30031-025A | SPECIAL SCREW | RC-BC(B) | |
| 125 | LY30031-025A | SPECIAL SCREW | RC-BC(R) | |
| 126 | LY30031-0J1A | SPECIAL SCREW | FRT-ARM(F) | |
| 127 | LY30031-0J1A | SPECIAL SCREW | FRT-BKTME | |
| 128 | LY30031-0J1A | SPECIAL SCREW | FRT-OPBKT | |
| 129 | LY30031-0J1A | SPECIAL SCREW | FRT-ARM(B) | |
| 130 | LY30031-025A | SPECIAL SCREW | FRT-BC(B) | |
| 131 | LY30031-0H9B | SPECIAL SCREW | OPCOVE-BKT(x2) | |
| 132 | LY34734-002B | TOP COVER ASSY | | |
| 132A | LY34735-001A | KNOB(MEMORY) | | |
| 133 | LY30031-0J1A | SPECIAL SCREW | TOP-ARM(T) | |
| 134 | LY30031-0J1A | SPECIAL SCREW | TOP-ARM(G) | |
| 135 | LY30031-0J1A | SPECIAL SCREW | TOP-BKTH(G) | |
| 136 | LY30031-0H9B | SPECIAL SCREW | TOP-BKTH(O) | |
| 137 | LY34740-001A | SHOE | | |
| 138 | LY30031-0H8A | SPECIAL SCREW | SHOE-OPCOV(x2) | |
| 139 | LY30034-0U4A | SPACER(A) | (x2) | |
| 140 | LY45077-001A | SHEET(C.COVER) | | |
| 151 | LY41393-010A | COVER(JIG CONN) | | |
| 152 | LY30031-025A | SPECIAL SCREW | JIG-REAR | |
| 153 | LY40699-002A | LABEL(PUSH) | | |
| 154 | LY32001-004A | LABEL(HOUSING) | | |
| 155 | LY34742-001A | COVER(ADJUST) | | |
| 156 | LY30031-0H9A | SPECIAL SCREW | ADJ-ARM | |
| 157 | QAM0727-001 | MEMORY CARD | SD 32MB* | |
| 158 | LY34743-001B | DAMMY BATTERY | | |
| 201 | LY34905-001B | OP BLOCK ASSY | | |
| 201A | PTY34905-006 | IRIS UNIT | | |
| 201B | PTY34905-001 | ZOOM MORTOR UNIT | | |
| 201C | PTY34905-002 | FORCUS MORTOR UNIT | | |
| 201D | PTY34905-535 | SCREW | M1.4 x 3.5mm(x9) | |
| 201E | PTY34905-530 | SCREW | M1.2 x 3.0mm(x2) | |
| 202 | LY45030-002A | PRISM ASSY | | |
| 203 | QYSPSGU1750ZA | TAP SCREW | M1.7 x 5mm(x3) | |
| 211 | LY34956-001A | HEAT SHEET | (x3) | |
| 212 | LY34952-001B | HEAT SINK(CCD) | | |
| 215 | LY34729-001B | BKT(OP)ASSY | | |
| 215A | LY42796-001A | BUSH | (x3) | |
| 216 | LY30032-015A | SPECIAL SCREW | OPBKT-OP(x3) | |
| 217 | LY34732-001A | BKT(TOP) | | |
| 218 | LY30031-063A | SPECIAL SCREW | BKTT-OPBKT(x2) | |
| 219 | LY30031-007A | SPECIAL SCREW | H.SINK-OP(x2) | |
| 231 | LY21358-002C | OP COVER | | |
| 232 | LY34916-001A | MIC ASSY | | |
| 233 | LY34727-001A | COVER(MIC) | | |
| 234 | LY30034-0U5A | SPACER(A) | | |
| 251 | QAL0669-001 | FPC | ZOOM-MAIN | |
| 252 | NSW0223-001X | TACT SWITCH | | |
| 253 | LY30034-074A | SPACER(A) | TACT SW | |
| 254 | LY34267-002A | ZOOM SW | | |
| 255 | LY34697-001A | BKT(ZOOM) | | |
| 256 | LY30031-016A | SPECIAL SCREW | FPC-BKT(Z)(x2) | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 257 | LY21349-002C | C.COVER ASSY | | |
| 257A | LY34689-002A | COVER(SD) | | |
| 257B | LY44951-001A | SHAFT(SD) | | |
| 257C | LY45039-001A | TORSION SPRING | | |
| 257D | LY34693-001A | BKT(G.B) 1 | | |
| 257E | LY34695-001A | STUD(G.B) | | |
| 257F | LY21353-002A | GRIP BELT | | |
| 257G | LY45079-001A | SHEET(C.COVER)2 | BKT(GB) | |
| 257H | LY30031-003A | SPECIAL SCREW | | |
| 257J | LY30031-0D6A | SPECIAL SCREW | | |
| 257K | LY30031-0K1A | SPECIAL SCREW | | |
| 258 | QAS0284-001 | SPEAKER | | |
| 259 | LY34696-001A | BKT(SPK) | | |
| 260 | LY30031-023A | SPECIAL SCREW | BKT(SP-CC) | |
| 262 | QAL0652-001 | FPC | SD-MAIN | |
| 263 | LY30031-023A | SPECIAL SCREW | FPC(ZO-CC) | |
| 264 | LY30031-016A | SPECIAL SCREW | SD PWB-CC(x2) | |
| 265 | LY30031-023A | SPECIAL SCREW | FPC(SD-CC)(x2) | |
| 266 | LY21350-001C | ARM ASSY | | |
| 266A | LY10555-001A | BKT(ARM) | | |
| 266B | LY34683-001A | PLATE(ARM) | | |
| 266C | LY34684-001A | PLATE(LOCK) | | |
| 266D | LY34685-001A | LINK(1) | | |
| 266E | LY34686-001A | LINK(2) | | |
| 266F | LY30001-023A | TENSION SPRING | | |
| 266G | LY34688-001A | KNOB(LOCK) | | |
| 266H | LY30017-019A | SPACER-B | | |
| 266J | LY30031-039A | SPECIAL SCREW | KNOB | |
| 267 | LY30031-023A | SPECIAL SCREW | ARM-CC(F)(x2) | |
| 268 | LY30031-023A | SPECIAL SCREW | ARM-BKT(F) | |
| 269 | LY30031-023A | SPECIAL SCREW | ARM-BKT(B) | |
| 270 | LY30031-016A | SPECIAL SCREW | ARM-BKT(T) | |
| 271 | LY30031-016A | SPECIAL SCREW | ARM-BKT(TO) | |
| 272 | LY30031-0B7A | SPECIAL SCREW | CC-ARM(B) | |
| 273 | LY30031-016A | SPECIAL SCREW | FPC(SD-ARM)(x2) | |
| 274 | LY21352-001A | BOTTOM CASE | | |
| 275 | LY30031-0B7A | SPECIAL SCREW | BTM-ARM(F) | |
| 276 | LY30031-016A | SPECIAL SCREW | BTM-ARM(R) | |
| 278 | LY30031-016A | SPECIAL SCREW | EJECT-ARM | |
| 279 | LY21354-001A | POWER OPE UNIT | | |
| 280 | LY30031-016A | SPECIAL SCREW | POWER-ARM(x2) | |
| 281 | LY30031-0A7A | SPECIAL SCREW | ARM-CC(B) | |
| 301 | LY21355-002C | REAR COVER ASSY | | |
| 301A | LY34698-001A | BKT(HINGE) | | |
| 301B | LY34701-001A | KNOB(LOCK.) | | |
| 301C | LY34703-001A | BKT(G.B) | | |
| 301D | LY34704-001A | HOOK(REAR) | | |
| 301E | LY30002-066A | COMPRESSION SPRING | | |
| 301F | LY44802-001A | SPACER(CUSHION) | (x3) | |
| 301G | LY34929-002A | CAUTION LABEL | | |
| 301H | LY30031-0D6A | SPECIAL SCREW | (x4) | |
| 301J | LY30031-003A | SPECIAL SCREW | (x2) | |
| 302 | LY30034-0J5A | SPACER(A) | WIRE | |
| 304 | LY30031-025A | SPECIAL SCREW | PWB-RC(x4) | |
| 305 | LY30031-016A | SPECIAL SCREW | PWB-BKTHIN | |
| 306 | LY30031-095A | SPECIAL SCREW | HINGE-BKTH(x2) | |
| 307 | LY30034-0X3A | SPACER(A) | WIRE2 | |
| ⚠ 321 | LY34710-001B | BATT.COVER ASSY | | |
| 321A | LY34711-001B | KNOB(BATT.RELE) | | |
| 321B | LY34712-001A | BKT(BATT.RELE) | | |
| 321C | LY30002-065A | COMPRESSION SPRING | | |
| 321D | LY30031-003A | SPECIAL SCREW | BKT(BAT-BC)(x2) | |
| 322 | LY34726-001A | BATT. TERMINAL | | |
| 323 | LY34714-001A | BKT(TERMINAL) | | |
| 324 | LY30031-0J1A | SPECIAL SCREW | BC-BKT(TER) | |
| 326 | LY30031-008A | SPECIAL SCREW | REG.PWB-BC(x2) | |
| 327 | LY34715-001A | BKT(REG PWB) | | |
| 328 | LY30031-008A | SPECIAL SCREW | BKT(REG-BC) | |
| 329 | LY30034-0S3A | SPACER(A) | PWB(REAR) | |
| ⚠ 351 | LY21357-002A | FRONT UNIT | | |
| 352 | LY34725-001A | HOLDER(OP) | | |
| 353 | LY34724-001B | HOOD(SCREW) | | |
| 354 | LY30031-081A | SPECIAL SCREW | FRT-HOOD(x3) | |
| 355 | LY34720-001B | JACK COVER(MIC) | | |
| 356 | LY34717-001B | JACK COVER(DC) | | |
| 357 | LY34722-001A | BKT(J.COVER) | | |
| 358 | LY30031-0D6A | SPECIAL SCREW | FRT-BKT | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 359 | LY34723-001A | STROBE UNIT | | |
| 360 | WJT0171-001A-E | E-CARD WIRE | STROB-REG | |
| 361 | LY30031-0D6A | SPECIAL SCREW | STR-FRT(B) | |
| 362 | LY30031-025A | SPECIAL SCREW | STR-FRT(T)(x2) | |
| 363 | LY34891-001A | PLATE(FOCUS) | | |
| 501 | LY10560-001A | MONI.CASE | | |
| 502 | QLD0367-001 | LCD MODULE | | |
| 503 | LY34705-001A | LCD BRACKET | | |
| 504 | QLL0171-001 | BACK LIGHT | | |
| 506 | LY34709-001A | EARTH PLATE | | |
| ⚠ 508 | LY10559-002B | MONITOR COVER | | |
| 509 | LY30034-0Q6A | SPACER(A) | MONI COVER | |
| 510 | LY30031-0J2A | SPECIAL SCREW | MCOV-HINGE(x2) | |
| 511 | LY30031-0D6A | SPECIAL SCREW | MCOV-BKT(x2) | |
| 512 | LY45084-001A | SPACER(M.WIRE) | HINGE | |
| 513 | LY45086-001A | SPACER(M.WIRE2) | FPC | |
| 551 | WJJ0599-002A-E | E-SI C WIRE C-C | | |
| 552 | LY30034-0S9A | SPACER(A) | WIRE | |
| 553 | LY35032-001A | HINGE UNIT | | |
| 554 | LY34708-001A | HINGE COVER(L) | | |
| 555 | LY30031-086A | SPECIAL SCREW | COV.L-HIN(x2) | |
| 556 | LY34707-001A | HINGE COVER(U) | | |
| 557 | LY30031-0K2A | SPECIAL SCREW | COV.U-HIN(x2) | |
| 558 | QAL0670-001 | FPC | | |
| 559 | NSW0217-001X | DETECT SWITCH | | |
| 560 | LY30031-0J9A | SPECIAL SCREW | FPC | |
| 561 | LY45088-001A | SHEET(HINGE) | HINGE | |
| 562 | LY30034-081A | SPACER(A) | HINGE | |

***NOTE:**
DATA FILE is not contained in MEMORY CARD of the service part.

## MECHANISM ASSEMBLY <M2>

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 900 | YMA0029BU | MECHA(A)ASSY | Y/E Y08265 | |
| 900A | YMA0029AB | MECHA(A)ASSY | JVM/BJVC | |
| 901 | LY32870-001Q | CASSETTEHOUSING ASSY | | |
| 902 | LY43675-008A | MINI SCREW | (x3) | |
| 903 | LYH30420-001A | UPPER BASE ASSY | | |
| 904 | QYSPSPU1425MA | SCREW | M1.4 x 2.5mm | |
| 905 | YDV2102L | DRUM ASSY | M/B SET022 | |
| 906 | LY44533-001A | DAMP.SCREW ASSY | JVM/BJVC(x2) | |
| 907 | LY44533-002A | DAMP.SCREW ASSY | | |
| 908 | LY31538-001G | REEL DISK ASSY | | |
| 909 | LY31538-002J | REEL DISK ASSY | | |
| 910 | YQ44246 | SLIT WASHER | (x2) | |
| 911 | LY10372-001K | REEL COVER ASSY | | |
| 912 | LY42120-002B | MINI SCREW | | |
| 913 | LY41945-003B | MINI SCREW | (x2) | |
| 914 | YQ44246 | SLIT WASHER | | |
| 915 | LY43725-001G | TENSION ARM ASSY | | |
| 916 | LYH40269-001A | SLANT POLE ARM ASSY | | |
| 917 | LY43731-001G | TAKE UP ARM ASSY | | |
| 918 | LY31531-001E | SWING ARM ASSY | | |
| 919 | YQ43893-9 | MINI SCREW | | |
| 920 | LYH30424-001A | SLIDE DECK FINAL ASSY | | |
| 921 | YQ43893 | MINI SCREW | (x2) | |
| 922 | LY43023-001A | MINI SCREW | | |
| 924 | LYH30419-001A | PAD ARM ASSY | | |
| 925 | YQ44246 | SLIT WASHER | | |
| 928 | LYH40270-001A | TAKE UP BRAKE ASSY | | |
| 929 | YQ44246 | SLIT WASHER | | |
| 930 | LY43684-001C | TENSION CONTROL LEVER ASSY | | |
| 931 | LY32861-001B | CENTER GEAR | | |
| 932 | LY31516-001J | PINCH ROLLER ARM FINAL ASSY | | |
| 933 | YQ44246 | SLIT WASHER | | |
| 934 | LY43681-001B | TENSION CONTROL PLATE ASSY | | |
| 935 | LY43687-001A | BRAKE CONTROL LEVER ASSY | | |
| 936 | LYH30421-001A | MOTOR BRACKET ASSY | | |
| 937 | YQ43893 | MINI SCREW | (x3) | |
| 938 | LYH30422-001A | GUIDE RAIL ASSY | | |
| 939 | YQ43893 | MINI SCREW | | |
| 940 | YQ44246 | SLIT WASHER | (x2) | |
| 941 | LY32843-001J | SLIDE LEVER2 ASSY | | |
| 942 | LY43690-001C | LOADING PLATE ASSY | | |
| 943 | YQ44246 | SLIT WASHER | | |
| 944 | LY32858-001B | EJECT LEVER | | |
| 945 | YQ44246 | SLIT WASHER | | |
| 946 | LYH40271-001A | BASE R ASSY | | |
| 947 | YQ43893 | MINI SCREW | | |
| 948 | LY41945-001C | MINI SCREW | | |
| 949 | LY43665-001A | MODE GEAR | | |
| 950 | QSW0876-005 | ROTARY ENCODER | | |
| 951 | YQ43893 | MINI SCREW | (x2) | |
| 952 | LY32860-001E | GEAR COVER ASSY | | |
| 953 | YQ43893 | MINI SCREW | (x2) | |
| 954 | LY43675-007A | MINI SCREW | | |
| 955 | LY43676-001B | MAIN CAM ASSY | | |
| 956 | LY41941-001B | SLIDE ARM ASSY | | |
| 957 | LY43678-001A | CONNECT GEAR 2 | | |
| 958 | LY43679-001C | SUB CAM ASSY | | |
| 959 | LY42120-001B | MINI SCREW | | |
| 960 | LY43692-001B | CONTROL ARM ASSY | | |
| 961 | LY32859-001B | REEL GEAR 1 | | |
| 962 | LY31508-003G | DRUM BASE ASSY | | |
| 963 | LY43675-006C | MINI SCREW | (x3) | |
| 964 | QAR0156-002 | CAPSTAN MOTOR | | |
| 965 | YQ43893 | MINI SCREW | | |
| 966 | LY10367-001N | MAIN DECK ASSY | | |
| 976 | YQ44246 | SLIT WASHER | | |
| 978 | LY44609-001A | WASHER | | |
| 979 | LY44502-001A | SPACER | JVM/BJVC | |
| 998 | QYWFM163013 | WASHER | 3mm/1.6mm x 0.13mm | |

## PACKING AND ACCESSORY ASSEMBLY <M5>

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| 001 | LY34452-001A | POLY BAG | DOCUMENT | |
| ⚠ 002 | LYT1431-001A | INST BOOK(EN) | (ENGLISH) | |
| ⚠ 002 | LYT1431-002A | INST BOOK(FR) | (FRENCH) | |
| ⚠ 002 | LYT1431-003A | INST BOOK(SP) | (SPANISH) | |
| 003 | LYT1467-001A | INST BOOK(SOFT.EN) | (SOFT.ENGLISH) | |
| 003 | LYT1467-003A | INST BOOK(SOFT.FR) | (SOFT.FRENCH) | |
| 003 | LYT1467-005A | INST BOOK(SOFT.SP) | (SOFT.SPANISH) | |
| 004 | LYT1412-002A | SHEET(HEAD.US) | | |
| 007 | LY32210-0B3A | CD ROM ASSY | | |
| 010 | ---------- | WARRANTY CARD | BT-51005-9 | |
| 011 | BT-51034-2 | REGISTRATION CARD | | |
| 012 | ---------- | WARRANTY CARD | BT-52006-2 | |
| 051 | LY34749-003A | PACKING CASE | | |
| 052 | LY21360-001A | CUSHION | | |
| 053 | LY30023-042A | POLY BAG | | |
| 054 | QPA02503505P | POLY BAG | ACC 25cm x 35cm | |
| 056 | QAM0664-001 | MULTI CABLE | MULTI | |
| 057 | QQR0917-002 | CORE FILTER | MULTI | |
| 058 | QAM0572-001 | AUDIO CABLE | MIC | |
| 059 | QQR0917-002 | CORE FILTER | MIC 2T | |
| 060 | QAM0538-001 | USB CABLE | USB | |
| 061 | QQR0491-002 | FERRITE CORE | USB 1T TDK (BLACK) | |
| 062 | QAM0495-001 | AUDIO CABLE | HP | |
| 063 | QQR0917-002 | CORE FILTER | HP 1T(x2) | |
| ⚠ 065 | LY21103-001D | AC ADAPTER | AP-V14U | |
| ⚠ 065 or | LY21313-001A | AC ADAPTER | AP-V16U | |
| 066 | QQR0917-002 | CORE FILTER | DC 1T | |
| ⚠ 067 | LY34647-002B | BATTERY PACK | BN-VF707U | |
| 068 | LY21186-002A | REMOTE CTL UNIT | RM-720U | |
| 069 | LY21397-002A | SHOULDER STRAP | | |
| 070 | LY34918-001B | HOOD CAP ASSY | | |
| 071 | LY30023-014A | POLY BAG | CORE FILTE | |
| 078 | LY35015-001A | HOOD(ACC) ASSY | | |
| 099 | LYT1431-004A | SHEET(USB-PC) | | |

## MAIN BOARD ASSEMBLY <01>

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| PW1 | LYA10046-02C | MAIN BOARD ASSY | | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| IC1001 | UPD703166-M57-A | IC(MICRO C ROM) | MASK | |
| IC1001 or | UPD70F3166M57-A | IC(MICRO C ROM) | FLASH | |
| IC1002 | MB90099PFV134EX | IC(MICRO C ROM) | OSD USKR | |
| IC1003 | SN74AHC1G00K-X | IC | | |
| IC1003 or | SN74AHC1G00DC-X | IC | | |
| IC1004 | NJU7108F3-X | IC | | |
| IC1004 or | TC75S56FU-X | IC | | |
| IC1006 | RS5C314-X | IC | | |
| IC1007 | S-80823CNNB-G-W | IC | | |
| IC1009 | SN74AHC1G08K-X | IC | | |
| IC1009 or | SN74AHC1G08DC-X | IC | | |
| IC1010 | BH25FB1WG-W | IC | | |
| IC1201 | RS-751-X | IC(PHOTO SENSOR) | | |
| IC2201 | AK4660VQ | IC | 48P0.5 | |
| IC3001 | JCY0152-2 | IC | | |
| IC3002 | JCY0177-W | IC | | |
| IC3003 | SN74AHC1G04DC-X | IC | | |
| IC3201 | JCP8075 | IC | | |
| IC3701 | BH7612FV-X | IC | | |
| IC3731 | MM1504XN-X | IC | | |
| IC4001 | SIP1280ISD-DVA2 | IC | SIP-1270 | |
| IC4001 or | SIP1280-DV | IC | SIP-1270 | |
| IC4002 | SN74AHC1G04DC-X | IC | SN74AHC04 | |
| IC4003 | RN5RF12AA-X | IC | 1.2V REG | |
| IC4004 | SN74AHC1G04K-X | IC | SN74AHC04 | |
| IC4004 or | SN74AHC1G04DC-X | IC | | |
| IC4005 | NJM2872BF33-X | IC | | |
| IC4201 | HD49340HNP-X | IC | CDS/AD | |
| IC4241 | HD49340HNP-X | IC | CDS/AD | |
| IC4281 | HD49340HNP-X | IC | CDS/AD | |
| IC4301 | MBPL32BM90PBN03 | IC(MICRO C ROM) | 4M FLASH | |
| IC4302 | K4S563233F-HN75 | IC | 256M FBGA | |
| IC4501 | JCY0216 | IC | PRE PROCES | |
| IC4502 | K4S643233H-HN75 | IC | 64M *32BIT | |
| IC4503 | R1160N151B-X | IC | REG 1.5V | |
| IC4504 | 25LC640X-I/STGX | IC | EEPROM | |
| IC4801 | NJM2143R-X | IC | | |
| IC4802 | NJM2143R-X | IC | | |
| IC4803 | NJM2143R-X | IC | | |
| IC4804 | NJM3414AV-X | IC | | |
| IC4851 | MM1614GN-X | IC | | |
| IC4901 | JCY0214-X | IC | IRIS DRV | |
| IC4901 or | LY34853-001A | CSP IC ASSY | IRIS DRV | |
| IC4951 | AN41902A | IC | F/Z DRV | |
| IC5001 | JCY0217 | IC | TG/V DRV | |
| IC5001 or | LY34934-001A | CSP IC ASSY | (SERVICE) | |
| IC5801 | NJU7008F3-X | IC | | |
| IC5802 | SN74AHC1G66K-X | IC | | |
| IC5852 | NAL0031-002X | GYRO SENSOR | SA NEC | |
| Q1001 | DTA114EE-X | DIGI TRANSISTOR | | |
| Q1001 or | PDTA114EE-X | DIGI TRANSISTOR | | |
| Q1001 or | RN2102-X | DIGI TRANSISTOR | | |
| Q1001 or | BCR183T-X | DIGI TRANSISTOR | | |
| Q1002 | UMC3N-W | DIGI TRANSISTOR | | |
| Q1003 | UMC3N-W | DIGI TRANSISTOR | | |
| Q1004 | UMC3N-W | DIGI TRANSISTOR | | |
| Q1005 | DTC143XE-X | DIGI TRANSISTOR | | |
| Q1005 or | UN921FJ-X | DIGI TRANSISTOR | | |
| Q1007 | 2SC4617/QR/-X | TRANSISTOR | | |
| Q1007 or | BC847BT-X | TRANSISTOR | | |
| Q1007 or | 2SD2216J/QR/-X | TRANSISTOR | | |
| Q1008 | DTC124EE-X | DIGI TRANSISTOR | | |
| Q1008 or | PDTC124EE-X | DIGI TRANSISTOR | | |
| Q1008 or | BCR141T-X | DIGI TRANSISTOR | | |
| Q1009 | 2SJ347-X | MOS FET | | |
| Q1010 | DTC144EE-X | DIGI TRANSISTOR | | |
| Q1010 or | BCR148T-X | DIGI TRANSISTOR | | |
| Q1010 or | UN9213J-X | DIGI TRANSISTOR | | |
| Q1010 or | PDTC144EE-X | DIGI TRANSISTOR | | |
| Q1011 | UMC3N-W | DIGI TRANSISTOR | | |
| Q1012 | DTC143XE-X | DIGI TRANSISTOR | | |
| Q1012 or | UN921FJ-X | DIGI TRANSISTOR | | |
| Q1191 | RPM-22PB | PHOTO TRANSISTOR | W/B | |
| Q2001 | DTC144EM-X | DIGI TRANSISTOR | | |
| Q2201 | DTC144EE-X | DIGI TRANSISTOR | | |
| Q2201 or | PDTC144EE-X | DIGI TRANSISTOR | | |
| Q2201 or | BCR148T-X | DIGI TRANSISTOR | | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| Q2201 or | UN9213J-X | DIGI TRANSISTOR | | |
| Q2401 | 2SC4617/RS/-X | TRANSISTOR | | |
| Q2401 or | BC847BT-X | TRANSISTOR | | |
| Q2401 or | 2SD2216J/RS/-X | TRANSISTOR | | |
| Q2403 | 2SC4617/RS/-X | TRANSISTOR | | |
| Q2403 or | BC847BT-X | TRANSISTOR | | |
| Q2403 or | 2SD2216J/RS/-X | TRANSISTOR | | |
| Q2701 | UMX1N-W | PAIR TRANSISTOR | | |
| Q2701 or | PUMX1-W | PAIR TRANSISTOR | | |
| Q2701 or | BC847S-X | PAIR TRANSISTOR | | |
| Q2701 or | XP4501-W | TRANSISTOR | | |
| Q2702 | UMX1N-W | PAIR TRANSISTOR | | |
| Q2702 or | PUMX1-W | PAIR TRANSISTOR | | |
| Q2702 or | BC847S-X | PAIR TRANSISTOR | | |
| Q2702 or | XP4501-W | TRANSISTOR | | |
| Q3701 | EMT1-W | PAIR TRANSISTOR | | |
| Q3702 | EMZ1-W | PAIR TRANSISTOR | | |
| Q3704 | 2SA2029/QRS/-X | TRANSISTOR | | |
| Q3705 | EMT1-W | PAIR TRANSISTOR | | |
| Q3706 | EMH11-W | PAIR TRANSISTOR | | |
| Q3731 | 2SC5658/QRS/-X | TRANSISTOR | | |
| Q3733 | EMZ1-W | PAIR TRANSISTOR | | |
| Q3734 | 2SC5658/QRS/-X | TRANSISTOR | | |
| Q3735 | EMZ1-W | PAIR TRANSISTOR | | |
| Q4001 | 2SC5658/QRS/-X | TRANSISTOR | | |
| Q4002 | 2SB1710-X | TRANSISTOR | | |
| Q4003 | DTC144EM-X | DIGI TRANSISTOR | | |
| Q4801 | 2SC4655J/BC/-X | TRANSISTOR | | |
| Q4951 | DTC114EM-X | DIGI TRANSISTOR | | |
| D1001 | DA221-X | DIODE ARRAY | | |
| D1002 | 1SS376-X | SI DIODE | | |
| D2651 | UDZS6.8B-X | Z DIODE | | |
| D2652 | EMZ6.8N-X | Z DIODE | | |
| D3001 | EC2C01C-TR-X | VARI CAP DIODE | | |
| D3002 | EC2C01C-TR-X | VARI CAP DIODE | | |
| D3003 | EC2C01C-TR-X | VARI CAP DIODE | | |
| D3004 | RB551V-30-X | SB DIODE | | |
| D4003 | 1SS376-X | SI DIODE | | |
| D5001 | 1SS355-X | SI DIODE | | |
| D5001 or | MA111-X | SI DIODE | | |
| D5002 | 1SS355-X | SI DIODE | | |
| D5002 or | MA111-X | SI DIODE | | |
| D5003 | 1SS355-X | SI DIODE | | |
| D5003 or | MA111-X | SI DIODE | | |
| C1001 | NDCA1HJ-8R0W | C CAPACITOR | 8pF 50V J | |
| C1002 | NDCA1HJ-100W | C CAPACITOR | 10pF 50V J | |
| C1003 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1004 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1005 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1006 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1007 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1008 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1009 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1010 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1011 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1012 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1013 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1014 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1015 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1016 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1017 | NBE20JM-226X | TA E CAPACITOR | 22uF 6.3V M | |
| C1018 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1019 | NBE20JM-226X | TA E CAPACITOR | 22uF 6.3V M | |
| C1020 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1021 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1022 | NCBA1EK-682W | C CAPACITOR | 6800pF 25V K | |
| C1023 | NCBA1EK-682W | C CAPACITOR | 6800pF 25V K | |
| C1024 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C1025 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1027 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1028 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1031 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1032 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1033 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1036 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1037 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C1038 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C1039 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C1040 | NDCA1HJ-8R0W | C CAPACITOR | 8pF 50V J | |
| C1041 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1042 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1043 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1044 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1046 | NCB31AK-105X | C CAPACITOR | 1uF 10V K | |
| C1051 | NCBA1CK-223W | C CAPACITOR | 0.022uF 16V K | |
| C1052 | NCBA1CK-223W | C CAPACITOR | 0.022uF 16V K | |
| C1053 | NCBA1CK-223W | C CAPACITOR | 0.022uF 16V K | |
| C1054 | NCBA1CK-223W | C CAPACITOR | 0.022uF 16V K | |
| C1057 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1058 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C1201 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C2001 | NCBA1EK-472W | C CAPACITOR | 4700pF 25V K | |
| C2002 | NCBA1EK-472W | C CAPACITOR | 4700pF 25V K | |
| C2201 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C2202 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C2203 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C2204 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C2205 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C2206 | NBE20GM-476X | TA E CAPACITOR | 47uF 4V M | |
| C2207 | NBE20GM-476X | TA E CAPACITOR | 47uF 4V M | |
| C2209 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C2210 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C2213 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C2214 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C2217 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C2218 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C2223 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C2224 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C2401 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C2402 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C2403 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C2404 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C2405 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C2406 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C2603 | NCBA1CK-223W | C CAPACITOR | 0.022uF 16V K | |
| C2604 | NCBA1CK-223W | C CAPACITOR | 0.022uF 16V K | |
| C2605 | NCBA1EK-472W | C CAPACITOR | 4700pF 25V K | |
| C2606 | NCBA1EK-472W | C CAPACITOR | 4700pF 25V K | |
| C2609 | NCBA1HK-332W | C CAPACITOR | 3300pF 50V K | |
| C2610 | NCBA1HK-332W | C CAPACITOR | 3300pF 50V K | |
| C2611 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C2612 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C2613 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C2623 | NDCA1HJ-100W | C CAPACITOR | 10pF 50V J | |
| C2624 | NDCA1HJ-100W | C CAPACITOR | 10pF 50V J | |
| C2651 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C2652 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C2655 | NCBA1CK-473W | C CAPACITOR | 0.047uF 16V K | |
| C2656 | NCBA1CK-473W | C CAPACITOR | 0.047uF 16V K | |
| C2701 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C2702 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C2703 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C2704 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3001 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C3003 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C3005 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C3007 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C3008 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C3011 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3012 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3013 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3015 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3016 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3017 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3020 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3021 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3022 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3023 | NDCA1HJ-330W | C CAPACITOR | 33pF 50V J | |
| C3024 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C3025 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3026 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C3027 | NCBA1EK-472W | C CAPACITOR | 4700pF 25V K | |
| C3028 | NDCA1EJ-271W | C CAPACITOR | 270pF 25V J | |
| C3029 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3030 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3031 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3032 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C3033 | NDCA1HJ-220W | C CAPACITOR | 22pF 50V J | |
| C3036 | NDCA1HJ-8R0W | C CAPACITOR | 8pF 50V J | |
| C3037 | NDCA1HJ-8R0W | C CAPACITOR | 8pF 50V J | |
| C3038 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3039 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3042 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3043 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3044 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3045 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3046 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3047 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3048 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C3049 | NCBA1HK-222W | C CAPACITOR | 2200pF 50V K | |
| C3050 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C3056 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C3058 | NCBA1AK-473W | C CAPACITOR | 0.047uF 10V K | |
| C3059 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C3061 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3062 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3072 | NBE20GM-476X | TA E CAPACITOR | 47uF 4V M | |
| C3201 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C3202 | NCB21AK-105X | C CAPACITOR | 1uF 10V K | |
| C3203 | NCB21AK-105X | C CAPACITOR | 1uF 10V K | |
| C3204 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C3205 | NBE20GM-476X | TA E CAPACITOR | 47uF 4V M | |
| C3206 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3207 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3209 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3211 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3214 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3216 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3217 | NCB21AK-105X | C CAPACITOR | 1uF 10V K | |
| C3219 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3220 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3221 | NCB21AK-105X | C CAPACITOR | 1uF 10V K | |
| C3222 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3223 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3224 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3225 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3229 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3233 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3234 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3701 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C3706 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C3707 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3708 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3709 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3710 | NBE20GM-226X | TA E CAPACITOR | 22uF 4V M | |
| C3711 | NBE20GM-226X | TA E CAPACITOR | 22uF 4V M | |
| C3712 | NBE20GM-107X | TA E CAPACITOR | 100uF 4V M | |
| C3713 | NBE20GM-107X | TA E CAPACITOR | 100uF 4V M | |
| C3715 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3731 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3732 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C3733 | NDCA1HJ-3R0W | C CAPACITOR | 3pF 50V J | |
| C3734 | NDCA1HJ-5R0W | C CAPACITOR | 5pF 50V J | |
| C3735 | NDCA1HJ-330W | C CAPACITOR | 33pF 50V J | |
| C3736 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C3738 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3739 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C3740 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C3741 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C3742 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C3743 | NDCA1HJ-3R0W | C CAPACITOR | 3pF 50V J | |
| C3744 | NDCA1HJ-5R0W | C CAPACITOR | 5pF 50V J | |
| C3745 | NDCA1HJ-330W | C CAPACITOR | 33pF 50V J | |
| C3746 | NCB20JM-475X | C CAPACITOR | 4.7uF 6.3V M | |
| C3747 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4001 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4002 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4003 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4005 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4006 | NBE20JM-226X | TA E CAPACITOR | 22uF 6.3V M | |
| C4008 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4009 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C4010 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4011 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4014 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4015 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4016 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4017 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4018 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4019 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4020 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4021 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4022 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4023 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4024 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4025 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4026 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4027 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4028 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4029 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4030 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4031 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4032 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4033 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4034 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4035 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4036 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4037 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4038 | NCB31CK-224X | C CAPACITOR | 0.22uF 16V K | |
| C4043 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4044 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4045 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4046 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4201 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4202 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4203 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4204 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C4205 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4206 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4207 | NBE40JM-476X | TA E CAPACITOR | 47uF 6.3V M | |
| C4208 | NCBA1CK-123W | C CAPACITOR | 0.012uF 16V K | |
| C4209 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4210 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4211 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C4212 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4214 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4215 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4241 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4242 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4243 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4246 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4248 | NCBA1CK-123W | C CAPACITOR | 0.012uF 16V K | |
| C4249 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4250 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4251 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C4252 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4254 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4255 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4281 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4282 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4283 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4286 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4288 | NCBA1CK-123W | C CAPACITOR | 0.012uF 16V K | |
| C4289 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4290 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4291 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C4292 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4294 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4295 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4301 | NBZ0015-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4302 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4303 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4314 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4318 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4321 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4323 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4325 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4326 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4501 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4502 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4503 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4504 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C4505 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4506 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C4507 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4508 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4509 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4510 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4511 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4512 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4513 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4514 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4515 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4516 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4517 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4518 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4519 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4520 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4521 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C4522 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4523 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4524 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4525 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4526 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4527 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4528 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4529 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4530 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| C4531 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| C4532 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| C4533 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| C4534 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| C4535 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4536 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4537 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4538 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4539 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4540 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C4543 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4544 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4545 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4546 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4547 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4548 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4550 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4551 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4552 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4553 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4554 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4555 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C4556 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4557 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4558 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4559 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4560 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4561 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C4562 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4563 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4564 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4565 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4566 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4567 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4568 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4569 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C4570 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4571 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4572 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4573 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4574 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4575 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4576 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4577 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4578 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4579 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4580 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4581 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C4582 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4583 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C4584 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4585 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4586 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4587 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4801 | NBXJ0JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4802 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4803 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4804 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4805 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4807 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4808 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4809 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4810 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4811 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4812 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C4851 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4852 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4901 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4902 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4904 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4905 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4906 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4907 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4908 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4910 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4911 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4912 | NDCA1HJ-680W | C CAPACITOR | 68pF 50V J | |
| C4913 | NDCA1HJ-121W | C CAPACITOR | 120pF 50V J | |
| C4916 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4917 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4918 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4919 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4920 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4921 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4951 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4952 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4953 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4954 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C4957 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C4958 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5001 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5003 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5005 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5006 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C5007 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5010 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5011 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5012 | NBE40GM-227X | TA E CAPACITOR | 220uF 4V M | |
| C5013 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5014 | NBE20GM-107X | TA E CAPACITOR | 100uF 4V M | |
| C5016 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5021 | NCB21EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C5022 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5023 | NBP21VM-105X | TA E CAPACITOR | 1uF 35V M | |
| C5024 | NCB21EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C5025 | NBP21VM-105X | TA E CAPACITOR | 1uF 35V M | |
| C5026 | NCB21EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C5027 | NBP21VM-105X | TA E CAPACITOR | 1uF 35V M | |
| C5028 | NCB21EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C5029 | NBE41AM-476X | TA E CAPACITOR | 47uF 10V M | |
| C5030 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5031 | NBZ0018-106X | TA E CAPACITOR | 10uF 20V M | |
| C5032 | NCB21EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C5801 | NBE90JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C5806 | NCFA1HZ-103W | C CAPACITOR | 0.01uF 50V Z | |
| C5807 | NCB21AK-225X | C CAPACITOR | 2.2uF 10V K | |
| C5808 | NDCA1HJ-151W | C CAPACITOR | 150pF 50V J | |
| C5809 | NBE20JM-475X | TA E CAPACITOR | 4.7uF 6.3V M | |
| C5810 | NCBA1HK-331W | C CAPACITOR | 330pF 50V K | |
| C5812 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C5851 | NBE90JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C5853 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| R1001 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R1005 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1006 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1007 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1008 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1009 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1010 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1011 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1014 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1015 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1016 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1017 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1018 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1019 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1020 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1021 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1022 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1023 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1024 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1025 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1026 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1029 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1030 | NRSA6AJ-753W | MG RESISTOR | 75kΩ 1/16W J | |
| R1031 | NRSA6AJ-334W | MG RESISTOR | 330kΩ 1/16W J | |
| R1032 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R1033 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R1034 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R1035 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1036 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1037 | NRSA6AJ-561W | MG RESISTOR | 560Ω 1/16W J | |
| R1038 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1040 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1041 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1042 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1043 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1044 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1045 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R1046 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1047 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1048 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1049 | NRSA6AJ-623W | MG RESISTOR | 62kΩ 1/16W J | |
| R1050 | NRSA6AJ-823W | MG RESISTOR | 82kΩ 1/16W J | |
| R1051 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1052 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1053 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ 1/16W J | |
| R1054 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1055 | NRSA6AJ-152W | MG RESISTOR | 1.5kΩ 1/16W J | |
| R1056 | NRSA6AJ-561W | MG RESISTOR | 560Ω 1/16W J | |
| R1061 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1062 | NRSA6AJ-224W | MG RESISTOR | 220kΩ 1/16W J | |
| R1067 | NRSA6AJ-334W | MG RESISTOR | 330kΩ 1/16W J | |
| R1068 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1069 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1070 | NRSA6AJ-154W | MG RESISTOR | 150kΩ 1/16W J | |
| R1071 | NRSA6AJ-272W | MG RESISTOR | 2.7kΩ 1/16W J | |
| R1072 | NRSA6AJ-183W | MG RESISTOR | 18kΩ 1/16W J | |
| R1073 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1074 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R1075 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1076 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1077 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1078 | NRSA6AJ-393W | MG RESISTOR | 39kΩ 1/16W J | |
| R1079 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R1080 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1082 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1083 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R1084 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1085 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1086 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R1087 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R1088 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R1089 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R1090 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R1091 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1092 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1093 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1094 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1095 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1096 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1097 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1099 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1109 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R1110 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R1111 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R1112 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R1113 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R1114 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R1117 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1118 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1119 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1120 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1121 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1122 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1123 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1124 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1125 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1126 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1127 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1128 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1130 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1131 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1132 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1133 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1134 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1135 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1136 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1137 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1138 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R1140 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1151 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1152 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1153 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1154 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1155 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1156 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1157 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1159 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1160 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1161 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1162 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1163 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1165 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1166 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1167 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1169 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1170 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1171 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1172 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R1174 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1175 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1176 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1177 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1178 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1179 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R1180 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R1181 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1182 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1184 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1185 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1186 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1187 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R1188 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1189 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R1191 | NRSA6AJ-152W | MG RESISTOR | 1.5kΩ 1/16W J | |
| R1194 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1195 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R1201 | NRSA6AJ-470W | MG RESISTOR | 47Ω 1/16W J | |
| R2001 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R2002 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R2003 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R2004 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R2005 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R2006 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R2007 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R2201 | NRSA6AJ-224W | MG RESISTOR | 220kΩ 1/16W J | |
| R2202 | NRSA6AJ-564W | MG RESISTOR | 560kΩ 1/16W J | |
| R2203 | NRSA6AJ-393W | MG RESISTOR | 39kΩ 1/16W J | |
| R2204 | NRSA6AJ-154W | MG RESISTOR | 150kΩ 1/16W J | |
| R2206 | NRSA6AJ-333W | MG RESISTOR | 33kΩ 1/16W J | |
| R2207 | NRSA6AJ-333W | MG RESISTOR | 33kΩ 1/16W J | |
| R2208 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R2209 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R2212 | NRSA6AJ-2R7W | MG RESISTOR | 2.7Ω 1/16W J | |
| R2213 | NRSA6AJ-2R7W | MG RESISTOR | 2.7Ω 1/16W J | |
| R2217 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R2231 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R2401 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R2402 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R2403 | NRSA6AJ-183W | MG RESISTOR | 18kΩ 1/16W J | |
| R2407 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R2601 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ 1/16W J | |
| R2602 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ 1/16W J | |
| R2607 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ 1/16W J | |
| R2608 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ 1/16W J | |
| R2609 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R2610 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R2618 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R2619 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R2701 | NRSA6AJ-821W | MG RESISTOR | 820Ω 1/16W J | |
| R2702 | NRSA6AJ-821W | MG RESISTOR | 820Ω 1/16W J | |
| R2703 | NRSA6AJ-564W | MG RESISTOR | 560kΩ 1/16W J | |
| R2704 | NRSA6AJ-564W | MG RESISTOR | 560kΩ 1/16W J | |
| R2705 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R2706 | NRSA6AJ-221W | MG RESISTOR | 220Ω 1/16W J | |
| R2707 | NRSA6AJ-221W | MG RESISTOR | 220Ω 1/16W J | |
| R2708 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R2709 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R2710 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R2711 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R3002 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R3004 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R3007 | NRSA6AJ-562W | MG RESISTOR | 5.6kΩ 1/16W J | |
| R3008 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ 1/16W J | |
| R3009 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R3010 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R3011 | NRSA6AJ-224W | MG RESISTOR | 220kΩ 1/16W J | |
| R3013 | NRSA6AJ-242W | MG RESISTOR | 2.4kΩ 1/16W J | |
| R3014 | NRSA6AJ-392W | MG RESISTOR | 3.9kΩ 1/16W J | |
| R3015 | NRSA6AJ-392W | MG RESISTOR | 3.9kΩ 1/16W J | |
| R3016 | NRVA6AD-560W | CMF RESISTOR | 56Ω 1/16W D | |
| R3017 | NRVA6AD-560W | CMF RESISTOR | 56Ω 1/16W D | |
| R3018 | NRVA6AD-560W | CMF RESISTOR | 56Ω 1/16W D | |
| R3019 | NRVA6AD-560W | CMF RESISTOR | 56Ω 1/16W D | |
| R3020 | NRVA6AD-512W | CMF RESISTOR | 5.1kΩ 1/16W D | |
| R3027 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R3028 | NRSA6AJ-822W | MG RESISTOR | 8.2kΩ 1/16W J | |
| R3029 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R3030 | NRSA6AJ-224W | MG RESISTOR | 220kΩ 1/16W J | |
| R3031 | NRSA6AJ-224W | MG RESISTOR | 220kΩ 1/16W J | |
| R3032 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R3033 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ 1/16W J | |
| R3034 | NRSA6AJ-823W | MG RESISTOR | 82kΩ 1/16W J | |
| R3035 | NRSA6AJ-123W | MG RESISTOR | 12kΩ 1/16W J | |
| R3036 | NRSA6AJ-122W | MG RESISTOR | 1.2kΩ 1/16W J | |
| R3037 | NRSA6AJ-152W | MG RESISTOR | 1.5kΩ 1/16W J | |
| R3038 | NRSA6AJ-561W | MG RESISTOR | 560Ω 1/16W J | |
| R3039 | NRSA6AJ-561W | MG RESISTOR | 560Ω 1/16W J | |
| R3040 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ 1/16W J | |
| R3045 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R3046 | NRSA6AJ-681W | MG RESISTOR | 680Ω 1/16W J | |
| R3049 | NRSA6AJ-151W | MG RESISTOR | 150Ω 1/16W J | |
| R3051 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R3056 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3059 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R3062 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R3064 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3069 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3070 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3201 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R3202 | NRSA6AD-183W | MG RESISTOR | 18kΩ 1/16W D | |
| R3203 | NRSA6AD-123W | MG RESISTOR | 12kΩ 1/16W D | |
| R3204 | NRSA6AD-821W | MG RESISTOR | 820Ω 1/16W D | |
| R3205 | NRSA6AD-821W | MG RESISTOR | 820Ω 1/16W D | |
| R3207 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3212 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3213 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3214 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3215 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3216 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R3254 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3339 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R3701 | NRSA6AD-271W | MG RESISTOR | 270Ω 1/16W D | |
| R3703 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R3704 | NRSA6AD-301W | MG RESISTOR | 300Ω 1/16W D | |
| R3706 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R3707 | NRSA6AD-680W | MG RESISTOR | 68Ω 1/16W D | |
| R3708 | NRSA6AD-680W | MG RESISTOR | 68Ω 1/16W D | |
| R3709 | NRSA6AD-680W | MG RESISTOR | 68Ω 1/16W D | |
| R3710 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R3711 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R3712 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R3713 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R3714 | NRSA6AJ-823W | MG RESISTOR | 82kΩ 1/16W J | |
| R3715 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R3718 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3720 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R3722 | NRSA6AD-151W | MG RESISTOR | 150Ω 1/16W D | |
| R3724 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R3725 | NRSA6AD-151W | MG RESISTOR | 150Ω 1/16W D | |
| R3726 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R3727 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R3728 | NRSA6AD-151W | MG RESISTOR | 150Ω 1/16W D | |
| R3730 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R3731 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R3732 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R3733 | NRSA6AD-561W | MG RESISTOR | 560Ω 1/16W D | |
| R3734 | NRSA6AJ-822W | MG RESISTOR | 8.2kΩ 1/16W J | |
| R3735 | NRSA6AD-182W | MG RESISTOR | 1.8kΩ 1/16W D | |
| R3736 | NRSA6AJ-183W | MG RESISTOR | 18kΩ 1/16W J | |
| R3737 | NRSA6AJ-183W | MG RESISTOR | 18kΩ 1/16W J | |
| R3738 | NRSA6AJ-681W | MG RESISTOR | 680Ω 1/16W J | |
| R3739 | NRSA6AJ-821W | MG RESISTOR | 820Ω 1/16W J | |
| R3740 | NRSA6AJ-821W | MG RESISTOR | 820Ω 1/16W J | |
| R3741 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R3744 | NRSA6AD-561W | MG RESISTOR | 560Ω 1/16W D | |
| R3745 | NRSA6AD-152W | MG RESISTOR | 1.5kΩ 1/16W D | |
| R3746 | NRSA6AJ-222W | MG RESISTOR | 2.2kΩ 1/16W J | |
| R3747 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R3748 | NRSA6AJ-474W | MG RESISTOR | 470kΩ 1/16W J | |
| R4001 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4003 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4004 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R4005 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R4006 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4007 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4009 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4010 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4011 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4012 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4013 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4014 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4015 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4016 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4017 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4018 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4019 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4020 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4021 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4022 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4023 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4024 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4025 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4026 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4028 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4029 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4030 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4031 | NRSA6AJ-272W | MG RESISTOR | 2.7kΩ 1/16W J | |
| R4032 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4033 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4034 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4035 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4036 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4037 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4038 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4039 | NRSA6AJ-220W | MG RESISTOR | 22Ω 1/16W J | |
| R4040 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4042 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4044 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4045 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4048 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4049 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4050 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4051 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4053 | NRSA6AJ-220W | MG RESISTOR | 22Ω 1/16W J | |
| R4054 | NRSA6AJ-220W | MG RESISTOR | 22Ω 1/16W J | |
| R4055 | NRVA6AD-181W | CMF RESISTOR | 180Ω 1/16W D | |
| R4056 | NRVA6AD-101W | CMF RESISTOR | 100Ω 1/16W D | |
| R4058 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4061 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4068 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4069 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R4070 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R4071 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R4073 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4074 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4075 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4076 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4079 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4081 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4201 | NRSA6AJ-333W | MG RESISTOR | 33kΩ 1/16W J | |
| R4202 | NRSA6AJ-510W | MG RESISTOR | 51Ω 1/16W J | |
| R4206 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| R4241 | NRSA6AJ-333W | MG RESISTOR | 33kΩ 1/16W J | |
| R4242 | NRSA6AJ-510W | MG RESISTOR | 51Ω 1/16W J | |
| R4281 | NRSA6AJ-333W | MG RESISTOR | 33kΩ 1/16W J | |
| R4282 | NRSA6AJ-510W | MG RESISTOR | 51Ω 1/16W J | |
| R4301 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4306 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R4501 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4502 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4503 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4504 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4505 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4506 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4507 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4508 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4509 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4510 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4511 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4512 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4513 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4514 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4515 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4516 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4517 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4518 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4519 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4520 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4521 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4522 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4523 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4524 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4525 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4526 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4527 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4528 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4529 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4530 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4531 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4532 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4533 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4534 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4535 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4536 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4537 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4538 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4539 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4540 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4541 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4542 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R4543 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4544 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4545 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4554 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R4555 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R4556 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4557 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4558 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4559 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4560 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4561 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4562 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4563 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4564 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4565 | NRSA6AJ-331W | MG RESISTOR | 330Ω 1/16W J | |
| R4566 | NRSA6AJ-331W | MG RESISTOR | 330Ω 1/16W J | |
| R4567 | NRSA6AJ-331W | MG RESISTOR | 330Ω 1/16W J | |
| R4568 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4569 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4573 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4574 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4575 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4576 | NRSA6AJ-822W | MG RESISTOR | 8.2kΩ 1/16W J | |
| R4577 | NRSA6AJ-123W | MG RESISTOR | 12kΩ 1/16W J | |
| R4578 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4579 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4580 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4581 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4582 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4587 | NRSA6AJ-474W | MG RESISTOR | 470kΩ 1/16W J | |
| R4588 | NRSA6AJ-393W | MG RESISTOR | 39kΩ 1/16W J | |
| R4589 | NRSA6AJ-473V | MG RESISTOR | 47kΩ 1/16W J | |
| R4590 | NRSA6AJ-473V | MG RESISTOR | 47kΩ 1/16W J | |
| R4591 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4592 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4593 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4594 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4595 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4633 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4652 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R4681 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| R4695 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R4696 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R4697 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R4698 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4711 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4712 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4713 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4717 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4719 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4720 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4721 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4722 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4723 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R4724 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R4725 | NRSA6AJ-471W | MG RESISTOR | 470Ω 1/16W J | |
| R4726 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4727 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4801 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4802 | NRSA6AJ-683W | MG RESISTOR | 68kΩ 1/16W J | |
| R4803 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R4804 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4805 | NRSA6AJ-564W | MG RESISTOR | 560kΩ 1/16W J | |
| R4806 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R4807 | NRSA6AJ-243W | MG RESISTOR | 24kΩ 1/16W J | |
| R4808 | NRSA6AJ-331W | MG RESISTOR | 330Ω 1/16W J | |
| R4809 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4810 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R4812 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R4813 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R4814 | NRSA6AJ-683W | MG RESISTOR | 68kΩ 1/16W J | |
| R4815 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R4816 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R4817 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4818 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R4820 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R4821 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4822 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R4823 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4824 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4902 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4904 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R4905 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4906 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4907 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4908 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4909 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4910 | NRSA6AJ-123W | MG RESISTOR | 12kΩ 1/16W J | |
| R4911 | NRSA6AJ-123W | MG RESISTOR | 12kΩ 1/16W J | |
| R4912 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4913 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4914 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R4915 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R4916 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R4917 | NRSA6AJ-684W | MG RESISTOR | 680kΩ 1/16W J | |
| R4918 | NRSA6AJ-153W | MG RESISTOR | 15kΩ 1/16W J | |
| R4919 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4920 | NRSA6AJ-822W | MG RESISTOR | 8.2kΩ 1/16W J | |
| R4921 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R4922 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R4951 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| R4952 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4953 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4954 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R4955 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R4956 | NRSA6AJ-4R7W | MG RESISTOR | 4.7Ω 1/16W J | |
| R4957 | NRSA6AJ-4R7W | MG RESISTOR | 4.7Ω 1/16W J | |
| R4958 | NRSA6AJ-4R7W | MG RESISTOR | 4.7Ω 1/16W J | |
| R4959 | NRSA6AJ-4R7W | MG RESISTOR | 4.7Ω 1/16W J | |
| R4960 | NRSA6AJ-271W | MG RESISTOR | 270Ω 1/16W J | |
| R4961 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R5001 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R5005 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R5006 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R5007 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R5008 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R5009 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R5010 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R5011 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R5012 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R5013 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R5014 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R5015 | NRSA6AJ-100W | MG RESISTOR | 10Ω 1/16W J | |
| R5016 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R5017 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R5018 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R5019 | NQR0559-002X | FERRITE BEADS | | |
| R5020 | NRSA6AJ-101W | MG RESISTOR | 100Ω 1/16W J | |
| R5022 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R5023 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R5024 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R5026 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R5805 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R5806 | NRSA6AJ-474W | MG RESISTOR | 470kΩ 1/16W J | |
| R5807 | NRSA6AJ-183W | MG RESISTOR | 18kΩ 1/16W J | |
| R5808 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R5811 | NRSA6AJ-123W | MG RESISTOR | 12kΩ 1/16W J | |
| R5812 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| RA2001 | NRZ0040-0R0X | NET RESISTOR | 0Ω 1/16W J | |
| RA3001 | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J | |
| RA3002 | NRZ0034-101W | NET RESISTOR | 100Ω 1/32W J | |
| RA3004 | NRZ0034-103W | NET RESISTOR | 10kΩ 1/32W J | |
| RA3005 | NRZ0034-151W | NET RESISTOR | 150Ω 1/32W J | |
| RA3201 | NRZ0034-0R0W | NET RESISTOR | 0Ω 1/32W J | |
| RA3202 | NRZ0034-0R0W | NET RESISTOR | 0Ω 1/32W J | |
| RA4001 | NRZ0034-220W | NET RESISTOR | 22Ω 1/32W J | |
| RA4002 | NRZ0034-220W | NET RESISTOR | 22Ω 1/32W J | |
| RA4005 | NRZ0034-473W | NET RESISTOR | 47kΩ 1/32W J | |
| RA4006 | NRZ0034-473W | NET RESISTOR | 47kΩ 1/32W J | |
| RA4301 | NRZ0034-104W | NET RESISTOR | 100kΩ 1/32W J | |
| RA4302 | NRZ0034-104W | NET RESISTOR | 100kΩ 1/32W J | |
| RA4303 | NRZ0034-104W | NET RESISTOR | 100kΩ 1/32W J | |
| RA4304 | NRZ0034-104W | NET RESISTOR | 100kΩ 1/32W J | |
| L1001 | NQL402M-100X | COIL | 10uH M | |
| L1002 | NQL402M-100X | COIL | 10uH M | |
| L1191 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| L2001 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| L2002 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| L2003 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| L2004 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| L2005 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| L2006 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| L2007 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| L2008 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| L2009 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| L2010 | NQR0506-002X | EMI FILTER | | |
| L2401 | NQL402M-100X | COIL | 10uH M | |
| L2402 | NQL402M-100X | COIL | 10uH M | |
| L2601 | NQR0269-013X | FERRITE BEADS | | |
| L2602 | NQR0269-013X | FERRITE BEADS | | |
| L2603 | NQR0269-013X | FERRITE BEADS | | |
| L2651 | NQR0269-013X | FERRITE BEADS | | |
| L2652 | NQR0269-013X | FERRITE BEADS | | |
| L2654 | NQR0269-013X | FERRITE BEADS | | |
| L2701 | NQR0251-004X | FERRITE BEADS | | |
| L2702 | NQR0251-004X | FERRITE BEADS | | |
| L2703 | NQR0251-004X | FERRITE BEADS | | |
| L2704 | NQR0251-004X | FERRITE BEADS | | |
| L3001 | NQR0129-002X | FERRITE BEADS | | |
| L3002 | NQR0129-002X | FERRITE BEADS | | |
| L3004 | NQR0006-001X | FERRITE BEADS | | |
| L3005 | NQL402M-100X | COIL | 10uH M | |
| L3006 | NQR0006-001X | FERRITE BEADS | | |
| L3007 | NQL085J-2R2X | COIL | 2.2uH J | |
| L3008 | NQL085J-120X | COIL | 12uH J | |
| L3012 | NQR0006-001X | FERRITE BEADS | | |
| L3201 | NQR0129-002X | FERRITE BEADS | | |
| L3202 | NQR0129-002X | FERRITE BEADS | | |
| L3203 | NQR0006-001X | FERRITE BEADS | | |
| L3204 | NQL38DK-100X | P COIL | 10uH K | |
| L3701 | NQL38DK-100X | P COIL | 10uH K | |
| L3731 | NQL085J-6R8X | COIL | 6.8uH J | |
| L3732 | NQL085J-6R8X | COIL | 6.8uH J | |
| L4001 | NQR0129-002X | FERRITE BEADS | | |
| L4002 | NQR0129-002X | FERRITE BEADS | | |
| L4005 | NQR0006-001X | FERRITE BEADS | | |
| L4006 | NQR0154-003X | FERRITE CORE | | |
| L4007 | NQR0006-001X | FERRITE BEADS | | |
| L4201 | NQR0006-001X | FERRITE BEADS | | |
| L4301 | NQR0129-002X | FERRITE BEADS | | |
| L4303 | NQR0129-002X | FERRITE BEADS | | |
| L4501 | NQR0154-003X | FERRITE CORE | | |
| L4502 | NQR0129-002X | FERRITE BEADS | | |
| L4503 | NQL38DK-100X | P COIL | 10uH K | |
| L4504 | NQL38DK-100X | P COIL | 10uH K | |
| L4505 | NQR0129-002X | FERRITE BEADS | | |
| L4506 | NQR0129-002X | FERRITE BEADS | | |
| L4508 | NQL38DK-100X | P COIL | 10uH K | |
| L4509 | NQL38DK-100X | P COIL | 10uH K | |
| L4951 | NQL38DK-100X | P COIL | 10uH K | |
| L4952 | NQL38DK-100X | P COIL | 10uH K | |
| L4953 | NQL38DK-100X | P COIL | 10uH K | |
| L5002 | NQR0129-002X | FERRITE BEADS | | |
| L5003 | NQR0559-003X | FERRITE BEADS | | |
| L5005 | NQL38DK-100X | P COIL | 10uH K | |
| L5006 | NQL38DK-100X | P COIL | 10uH K | |
| L5007 | NQR0559-003X | FERRITE BEADS | | |
| L5009 | NQR0559-003X | FERRITE BEADS | | |
| L5010 | NQR0559-003X | FERRITE BEADS | | |
| L5011 | NQR0559-003X | FERRITE BEADS | | |
| L5012 | NQR0559-003X | FERRITE BEADS | | |
| L5013 | NQR0559-003X | FERRITE BEADS | | |
| L5014 | NQR0559-003X | FERRITE BEADS | | |
| L5015 | NQR0559-003X | FERRITE BEADS | | |
| L5801 | NQR0129-002X | FERRITE BEADS | | |
| L5851 | NQR0129-002X | FERRITE BEADS | | |
| B2002 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| B2003 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| B2004 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| CN101 | QGB0520L1-40X | CONNECTOR | CCD40P B-B (1-40) | |
| CN102 | QGF0311C1-33W | CONNECTOR | OP 33P FFC/FPC (1-33) | |
| CN103 | QGB0403M1-C0X | CONNECTOR | REG B-B (1-120) | |
| CN104 | QGF0309F1-53X | CONNECTOR | REAR FFC/FPC (1-53) | |
| CN105 | QGF0309F1-25X | CONNECTOR | SD FFC/FPC (1-25) | |
| CN106 | QGF0528F1-40X | CONNECTOR | P_MDA1 FFC/FPC (1-40) | |
| CN107 | QGF0528F1-40X | CONNECTOR | P_MDA2 FFC/FPC (1-40) | |
| CN108 | QGF0532F2-12X | CONNECTOR | EJT/TRG FFC/FPC (1-12) | |
| CN109 | QGA1001F1-04X | CONNECTOR | MIC W-B (1-4) | |
| CN110 | QGB0519K2-30X | CONNECTOR | JIG30P B-B (1-30) | |
| ⚠ F4951 | NMFZ007-R25X-K | FUSE | 0.25A 50V | |
| ⚠ F4952 | NMFZ007-R20X-K | FUSE | 0.2A 50V | |
| J101 | QNS0233-001 | 3.5 JACK | EXT.MIC | |
| J102 | QNS0233-001 | 3.5 JACK | HP | |
| J103 | QNZ0669-002 | M CONNECTOR | MULTI | |
| J104 | QNZ0732-001 | D CONNECTOR | DV | |
| J105 | QNZ0497-001 | USB(B) CONNECTOR | USB USB(MINI-B) | |
| X1001 | NAX0692-001X | CRYSTAL | | |
| X1002 | NAX0564-001X | CRYSTAL | 32.768kHz | |
| X3002 | NAX0591-001X | CRYSTAL | | |
| X4001 | NAX0710-001X | CXO | | |
| X5001 | NAX0674-001X | CXO | | |
| HD1 | PQ40795-5-2 | LED HOLDER | W/B HOLDER | |
| OT1 | LY30034-0P6A | SPACER(A) | | |
| OT2 | LY30034-0P7A | SPACER(A) | | |
| OT3 | LY30034-0V5A | SPACER(A) | | |
| OT4 | LY45036-001B | SPACER(MAIN) | | |
| OT5 | LY30034-0U6A | SPACER(A) | FOR DV | |
| OT6 | LY34957-005A | BUSTERAID(A) | | |
| OT7 | LY30034-0W4A | SPACER(A) | | |
| OT8 | LY30034-0W5A | SPACER(A) | | |
| OT9 | LY45091-001A | BUSTERAID | | |
| WR1 | WJT0177-001A-E | E-CARD WIRE | (x2) | |
| PW2 | LYA20021-01A | L BOARD ASSY | | |
| L1 | NQL38DM-4R7X | P COIL | 4.7uH M | |
| OT1 | LY30034-0W5A | SPACER(A) | | |
| WR1 | QUBD73-X1A1A1 | SIN TWIST WIRE | (x2) | |
| PW3 | LYA20020-01A | REG SUB BOARD ASSY | | |
| IC4805 | TAR5S31-X | IC | | |
| C4813 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C4814 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C4815 | NBE90JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| J4855 | QUBD71-04A1A1 | SIN TWIST WIRE | | |
| J4856 | QUBD73-X3A1A1 | SIN TWIST WIRE | | |
| J4857 | QUBD71-03A1A1 | SIN TWIST WIRE | | |

## CCD BOARD ASSEMBLY <02>

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| PW1 | LYA10048-01B | CCD BOARD ASSY | | |
| Q5502 | 2SC4082/P/-X | TRANSISTOR | CCD BUFF B | |
| Q5503 | 2SC4081/RS/-X | TRANSISTOR | VSUB CTL B | |
| Q5505 | 2SC4082/P/-X | TRANSISTOR | CCD BUFF R | |
| Q5506 | 2SC4081/RS/-X | TRANSISTOR | VSUB CTL R | |
| Q5508 | 2SC4082/P/-X | TRANSISTOR | CCD BUFF G | |
| Q5509 | 2SC4081/RS/-X | TRANSISTOR | VSUB CTL G | |
| C5503 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C5504 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C5505 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C5506 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C5509 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C5510 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C5511 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C5512 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C5515 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C5516 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C5517 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C5518 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| R5504 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R5505 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R5506 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R5507 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R5511 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R5512 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R5513 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R5514 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R5518 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R5519 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R5520 | NRSA63J-152X | MG RESISTOR | 1.5kΩ 1/16W J | |
| R5521 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R5522 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R5523 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R5524 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| CN201 | QGB0520M1-40X | CONNECTOR | TO MAIN B-B (1-40) | |
| OT1 | LY30034-0U7A | SPACER(A) | D.F.SPACER(x3) | |
| OT2 | LY34957-001A | BUSTERAID(A) | | |
| OT3 | LY34957-002A | BUSTERAID(A) | | |

## REG BOARD ASSEMBLY <03>

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| PW1 | LYA10049-02B | REG BOARD ASSY | | |
| IC6001 | FA7725F | IC | | |
| IC6002 | XC6202P33M-X | IC | | |
| Q6101 | SSM3J14T-X | MOS FET | | |
| Q6102 | RSR025N03-X | MOS FET | | |
| Q6103 | SSM3J14T-X | MOS FET | | |
| Q6201 | SSM3J14T-X | MOS FET | | |
| Q6202 | RSR025N03-X | MOS FET | | |
| Q6301 | QS6U24-W | MOS FET | | |
| Q6401 | QS6U24-W | MOS FET | | |
| Q6501 | SSM3J14T-X | MOS FET | | |
| Q6502 | HN1A01FU/G/-X | PAIR TRANSISTOR | | |
| Q6502 or | BC856S-X | PAIR TRANSISTOR | | |
| Q6502 or | UMT1N-W | PAIR TRANSISTOR | | |
| Q6502 or | PUMT1-W | PAIR TRANSISTOR | | |
| Q6502 or | XP4401-W | TRANSISTOR | | |
| Q6503 | 2SC4081/RS/-X | TRANSISTOR | | |
| Q6701 | SSM3J14T-X | MOS FET | | |
| Q6702 | RTF020P02-X | MOS FET | | |
| Q6703 | RTF020P02-X | MOS FET | | |
| ⚠ D6001 | RB715W-X | SB DIODE | LITHIUM | |
| ⚠ D6002 | RB706D-40-X | SB DIODE | LITHIUM | |
| D6051 | UDZS6.8B-X | Z DIODE | | |
| D6052 | UDZS6.8B-X | Z DIODE | | |
| D6101 | RB160M-30-X | SB DIODE | | |
| D6201 | RB160M-30-X | SB DIODE | | |
| D6501 | RB481K-X | SB DIODE | | |
| D6502 | RB481K-X | SB DIODE | | |
| D6701 | RB160M-30-X | SB DIODE | | |
| D6702 | RB160M-30-X | SB DIODE | | |
| D6801 | RB551V-30-X | SB DIODE | | |
| C6001 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C6002 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6006 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C6007 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C6008 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6009 | NCB31CK-224X | C CAPACITOR | 0.22uF 16V K | |
| C6010 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C6011 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6051 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C6052 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C6101 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6102 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C6103 | NCBA1HK-221W | C CAPACITOR | 220pF 50V K | |
| C6104 | NCBA1HK-681W | C CAPACITOR | 680pF 50V K | |
| C6105 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C6106 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6107 | NCBA1CK-223W | C CAPACITOR | 0.022uF 16V K | |
| C6108 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C6109 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C6201 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| C6202 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C6203 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C6204 | NCBA1HK-221W | C CAPACITOR | 220pF 50V K | |
| C6301 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6302 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6303 | NCB31CK-683X | C CAPACITOR | 0.068uF 16V K | |
| C6305 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C6401 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6402 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6403 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C6405 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C6501 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6502 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6503 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6505 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6506 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6508 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C6509 | NCBA1AK-333W | C CAPACITOR | 0.033uF 10V K | |
| C6510 | NCBA1AK-473W | C CAPACITOR | 0.047uF 10V K | |
| C6511 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6512 | NCB21HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C6701 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C6702 | NCB41CK-106X | C CAPACITOR | 10uF 16V K | |
| C6704 | NCBA1EK-472W | C CAPACITOR | 4700pF 25V K | |
| C6705 | NCBA1CK-103W | C CAPACITOR | 0.01uF 16V K | |
| C6706 | NCBA1HK-221W | C CAPACITOR | 220pF 50V K | |
| C6707 | NCBA1HK-821W | C CAPACITOR | 820pF 50V K | |
| C6802 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C6803 | NCBA1HK-102W | C CAPACITOR | 1000pF 50V K | |
| C6804 | NCBA1HK-392W | C CAPACITOR | 3900pF 50V K | |
| R6001 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| ⚠ R6002 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R6005 | NRSA6AD-303W | MG RESISTOR | 30kΩ 1/16W D | |
| R6007 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R6008 | NRSA6AD-823W | MG RESISTOR | 82kΩ 1/16W D | |
| R6009 | NRSA6AD-333W | MG RESISTOR | 33kΩ 1/16W D | |
| ⚠ R6010 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R6013 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6051 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R6052 | NRSA6AJ-682W | MG RESISTOR | 6.8kΩ 1/16W J | |
| R6053 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R6054 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6055 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6056 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6057 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R6101 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| R6103 | NRSA6AJ-822W | MG RESISTOR | 8.2kΩ 1/16W J | |
| R6104 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R6105 | NRSA6AJ-123W | MG RESISTOR | 12kΩ 1/16W J | |
| R6106 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R6107 | NRSA6AD-243W | MG RESISTOR | 24kΩ 1/16W D | |
| R6108 | NRSA6AD-363W | MG RESISTOR | 36kΩ 1/16W D | |
| R6110 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R6203 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R6204 | NRSA6AJ-562W | MG RESISTOR | 5.6kΩ 1/16W J | |
| R6205 | NRSA6AD-153W | MG RESISTOR | 15kΩ 1/16W D | |
| R6206 | NRSA6AD-123W | MG RESISTOR | 12kΩ 1/16W D | |
| R6303 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |
| R6304 | NRSA6AJ-123W | MG RESISTOR | 12kΩ 1/16W J | |
| R6305 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R6403 | NRSA6AJ-273W | MG RESISTOR | 27kΩ 1/16W J | |
| R6404 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R6503 | NRSA6AD-823W | MG RESISTOR | 82kΩ 1/16W D | |
| R6504 | NRSA6AD-823W | MG RESISTOR | 82kΩ 1/16W D | |
| R6506 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R6507 | NRSA6AJ-333W | MG RESISTOR | 33kΩ 1/16W J | |
| R6508 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R6512 | NRSA6AJ-123W | MG RESISTOR | 12kΩ 1/16W J | |
| R6513 | NRSA6AJ-512W | MG RESISTOR | 5.1kΩ 1/16W J | |
| R6702 | NRV142F-R20X | CMF RESISTOR | 0.2Ω 1/4W F | |
| R6703 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R6704 | NRSA6AJ-105W | MG RESISTOR | 1MΩ 1/16W J | |
| R6708 | NRSA6AJ-153W | MG RESISTOR | 15kΩ 1/16W J | |
| R6709 | NRSA6AJ-114W | MG RESISTOR | 110kΩ 1/16W J | |
| R6710 | NRSA6AJ-124W | MG RESISTOR | 120kΩ 1/16W J | |
| R6712 | NRSA6AJ-561W | MG RESISTOR | 560Ω 1/16W J | |
| R6713 | NRSA6AJ-104W | MG RESISTOR | 100kΩ 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R6714 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R6715 | NRSA6AD-472W | MG RESISTOR | 4.7kΩ 1/16W D | |
| R6716 | NRSA6AJ-822W | MG RESISTOR | 8.2kΩ 1/16W J | |
| R6717 | NRSA6AD-183W | MG RESISTOR | 18kΩ 1/16W D | |
| R6718 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R6802 | NRSA6AJ-472W | MG RESISTOR | 4.7kΩ 1/16W J | |
| R6803 | NRSA6AJ-102W | MG RESISTOR | 1kΩ 1/16W J | |
| L6101 | NQL52EM-470X | COIL | 47uH M | |
| L6103 | NQL38DK-100X | P COIL | 10uH K | |
| L6201 | NQL52EM-390X | COIL | 39uH M | |
| L6301 | NQLZ012-470X | COIL | 47uH | |
| L6401 | NQLZ012-470X | COIL | 47uH | |
| L6501 | NQL52EM-221X | COIL | 220uH M | |
| L6502 | NQL38DK-100X | P COIL | 10uH K | |
| L6701 | NQL52EM-390X | COIL | 39uH M | |
| L6702 | NQL79GM-220X | COIL | 22uH M | |
| L6801 | NQL79GM-470X | COIL | 47uH M | |
| ⚠ BT6001 | QAB0040-001 | LITHIUM BATTERY | | |
| CN301 | QGB0403L1-C0X | CONNECTOR | 120PIN B-B (1-120) | |
| CN302 | QGF0528F1-14X | CONNECTOR | 14PIN FFC/FPC (1-14) | |
| CN303 | QGF0528F1-08X | CONNECTOR | 8PIN FFC/FPC (1-8) | |
| ⚠ F6001 | NMFZ007-2R5X-K | FUSE | 2.5A 24V | |
| ⚠ F6501 | NMFZ007-1R0X-K | FUSE | 1A 32V | |
| J301 | QNA0039-001 | DC JACK | | |
| OT1 | LY30034-0Q5A | SPACER(A) | | |
| OT2 | LY45062-001B | SPACER(REG) | | |
| OT3 | LY44158-001A | SHEET(SHIELD) | | |

## PRE/MDA BOARD ASSEMBLY <04>

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| PW1 | LYA10050-01B1 | PRE/MDA BOARD ASSY | | |
| ⚠ IC1601 | BD6637KV | IC | MDA 64PIN | |
| IC1701 | BA10358FVM-W | IC | REELAMP5V | |
| IC1702 | LM393DR-X | IC | REELSMT | |
| IC3501 | JCY0132 | IC | | |
| IC3502 | SN74AHC1G04K-X | IC | | |
| IC3502 or | SN74AHC1G04DC-X | IC | | |
| Q1601 | UMC3N-W | DIGI TRANSISTOR | LD ON | |
| Q3501 | 2SA1774/QRS/-X | TRANSISTOR | | |
| D1603 | DAP222-X | DIODE ARRAY | LD ON | |
| D1603 or | MA132WA-X | SI DIODE | | |
| C1601 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C1602 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C1603 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C1605 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C1606 | NCB31HK-152X | C CAPACITOR | 1500pF 50V K | |
| C1607 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C1614 | NBE21AM-106X | TA E CAPACITOR | 10uF 10V M | |
| C1618 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C1619 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C1620 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | |
| C1621 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C1622 | NCB31CK-223X | C CAPACITOR | 0.022uF 16V K | |
| C1623 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C1624 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C1625 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | |
| C1626 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C1627 | NCB31HK-472X | C CAPACITOR | 4700pF 50V K | |
| C1628 | NCB21CK-224X | C CAPACITOR | 0.22uF 16V K | |
| C1629 | NCB21EK-224X | C CAPACITOR | 0.22uF 25V K | |
| C1630 | NCB21EK-224X | C CAPACITOR | 0.22uF 25V K | |
| C1631 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C1632 | NCB21CK-474X | C CAPACITOR | 0.47uF 16V K | |
| C1633 | NCB21CK-474X | C CAPACITOR | 0.47uF 16V K | |
| C1701 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C1702 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C3501 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C3502 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C3503 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C3504 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C3505 | NCB31CK-223X | C CAPACITOR | 0.022uF 16V K | |
| C3506 | NCB21AK-105X | C CAPACITOR | 1uF 10V K | |
| C3507 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3508 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3509 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3510 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C3511 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3512 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C3513 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C3514 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C3515 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C3516 | NCB31CK-473X | C CAPACITOR | 0.047uF 16V K | |
| C3518 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3519 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C3520 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3521 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C3522 | NCB20JM-475X | C CAPACITOR | 4.7uF 6.3V M | |
| C3523 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3524 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3525 | NCB20JM-475X | C CAPACITOR | 4.7uF 6.3V M | |
| C3526 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3528 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3531 | NDC31HJ-120X | C CAPACITOR | 12pF 50V J | |
| C3532 | NDC31HJ-120X | C CAPACITOR | 12pF 50V J | |
| C3533 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C3534 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| R1601 | NRSA63J-681X | MG RESISTOR | 680Ω 1/16W J | |
| R1602 | NRSA63J-124X | MG RESISTOR | 120kΩ 1/16W J | |
| R1603 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R1604 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R1610 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R1611 | NRSA63J-391X | MG RESISTOR | 390Ω 1/16W J | |
| R1612 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R1613 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R1614 | NRZ0072-R330X | MG RESISTOR | 0.33Ω 1/4W F | |
| R1616 | NRSA63D-392X | MG RESISTOR | 3.9kΩ 1/16W D | |
| R1617 | NRZ0072-R330X | MG RESISTOR | 0.33Ω 1/4W F | |
| R1620 | NRSA63J-683X | MG RESISTOR | 68kΩ 1/16W J | |
| R1621 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R1622 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R1624 | NRSA63D-183X | MG RESISTOR | 18kΩ 1/16W D | |
| R1625 | NRSA63D-681X | MG RESISTOR | 680Ω 1/16W D | |
| R1629 | NRSA63J-564X | MG RESISTOR | 560kΩ 1/16W J | |
| R1630 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R1631 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R1635 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R1636 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R1637 | NRSA63J-154X | MG RESISTOR | 150kΩ 1/16W J | |
| R1638 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R1639 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| R1640 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| R1641 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R1642 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R1701 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R1702 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R1703 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R1704 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R1705 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R1706 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R1707 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R1708 | NRSA63J-124X | MG RESISTOR | 120kΩ 1/16W J | |
| R1709 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R1710 | NRSA63J-124X | MG RESISTOR | 120kΩ 1/16W J | |
| R1711 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R1712 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R3501 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R3502 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R3503 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R3504 | NRSA63D-241X | MG RESISTOR | 240Ω 1/16W D | |
| R3505 | NRSA63D-241X | MG RESISTOR | 240Ω 1/16W D | |
| R3506 | NRSA63D-241X | MG RESISTOR | 240Ω 1/16W D | |
| R3507 | NRSA63D-241X | MG RESISTOR | 240Ω 1/16W D | |
| R3508 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R3511 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R3513 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R3514 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R3515 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| L1601 | NQL382M-100X | COIL | 10uH M | |
| L1602 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| L3501 | NQR0006-001X | FERRITE BEADS | | |
| L3502 | NQL402M-100X | COIL | 10uH M | |
| L3503 | NQR0006-001X | FERRITE BEADS | | |
| L3504 | NQR0006-001X | FERRITE BEADS | | |
| L3505 | NQR0006-001X | FERRITE BEADS | | |
| CN401 | QGF0528F1-40X | CONNECTOR | MAIN1(PRE) FFC/FPC (1-40) | |
| CN402 | QGF0543F1-08X | CONNECTOR | HEAD FFC/FPC (1-8) | |
| CN403 | QGF0543F3-06X | CONNECTOR | LOADING FFC/FPC (1-6) | |
| CN404 | QGF0538F1-11X | CONNECTOR | DRUM FFC/FPC (1-11) | |
| CN405 | QGF0538F1-18X | CONNECTOR | CAPSTAN FFC/FPC (1-18) | |
| CN406 | QGF0517F2-16X | CONNECTOR | SENSOR FFC/FPC (1-16) | |
| CN407 | QGF0532F2-06X | CONNECTOR | ROT E SW FFC/FPC (1-6) | |
| CN408 | QGF0528F1-40X | CONNECTOR | MAIN2(MDA) FFC/FPC (1-40) | |
| ⚠ F1601 | NMFZ007-R20X-K | FUSE | 0.2A 50V | |
| ⚠ F1602 | NMFZ007-R50X-K | FUSE | 0.5A 50V | |
| SD1 | LY34060-001A | SHIELD CASE(PR) | PRE S-CASE | |

## REAR BOARD ASSEMBLY <05>

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| PW2 | LYA10050-01B2 | REAR BOARD ASSY | | |
| IC511 | NAL0031-002X | GYRO SENSOR | | |
| IC512 | SN74AHC1G66K-X | IC | | |
| IC513 | NJU7008F3-X | IC | | |
| D501 | UDZS4.3B-X | Z DIODE | | |
| D502 | UDZS4.3B-X | Z DIODE | | |
| C511 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C512 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C513 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C514 | NCB21AK-225X | C CAPACITOR | 2.2uF 10V K | |
| C515 | NCBA1HK-331W | C CAPACITOR | 330pF 50V K | |
| C516 | NBE20JM-475X | TA E CAPACITOR | 4.7uF 6.3V M | |
| C517 | NCBA1AK-104W | C CAPACITOR | 0.1uF 10V K | |
| C518 | NDC31HJ-151X | C CAPACITOR | 150pF 50V J | |
| C519 | NCFA1HZ-103W | C CAPACITOR | 0.01uF 50V Z | |
| R501 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R502 | NRSA6AJ-682W | MG RESISTOR | 6.8kΩ 1/16W J | |
| R503 | NRSA6AJ-223W | MG RESISTOR | 22kΩ 1/16W J | |
| R504 | NRSA6AJ-332W | MG RESISTOR | 3.3kΩ 1/16W J | |
| R508 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R513 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R514 | NRSA6AJ-474W | MG RESISTOR | 470kΩ 1/16W J | |
| R515 | NRSA6AJ-183W | MG RESISTOR | 18kΩ 1/16W J | |
| R516 | NRSA6AJ-123W | MG RESISTOR | 12kΩ 1/16W J | |
| R517 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R518 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| L511 | NQL382M-100X | COIL | 10uH M | |
| L512 | NQL382M-100X | COIL | 10uH M | |
| CN501 | QGF0309F1-53X | CONNECTOR | MAIN FFC/FPC (1-53) | |
| CN502 | QGA0503F1-20X | CONNECTOR | MONITOR W-B (1-20) | |
| CN503 | QGF0538F1-05X | CONNECTOR | MONI_SW2 FFC/FPC (1-5) | |
| S501 | NSW0198-001X | TACT SWITCH | | |
| S502 | NSW0198-001X | TACT SWITCH | | |
| S503 | NSW0198-001X | TACT SWITCH | | |
| S504 | NSW0198-001X | TACT SWITCH | | |
| S505 | NSW0198-001X | TACT SWITCH | | |
| S506 | NSW0198-001X | TACT SWITCH | | |
| S507 | NSW0198-001X | TACT SWITCH | | |
| S508 | NSW0198-001X | TACT SWITCH | | |
| S510 | NSW0198-001X | TACT SWITCH | | |
| S511 | NSW0150-001X | PUSH SWITCH | | |
| OT1 | LY45091-001A | BUSTERAID | | |
| WR1 | QAL0653-001 | FPC | REAR-MAIN | |

## MONITOR BOARD ASSEMBLY <06>

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| PW5 | LYA10050-01B5 | MONITOR BOARD ASSY | | |
| IC7601 | CXM3009TQ | IC | | |
| IC7603 | DN8797MS-X | IC | | |
| Q7701 | UMD3N-W | DIGI TRANSISTOR | BL INV | |
| Q7702 | 2SD1664/QR/-W | TRANSISTOR | | |
| Q7703 | 2SD1664/QR/-W | TRANSISTOR | | |
| D7601 | UDZS5.6B-X | Z DIODE | 1.5kΩ 1/10W J | |
| C7601 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C7602 | NCB31HK-682X | C CAPACITOR | 6800pF 50V K | |
| C7604 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C7605 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C7606 | NCB30JK-105X | C CAPACITOR | 1uF 6.3V K | |
| C7607 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C7608 | NBE21AM-106X | TA E CAPACITOR | 10uF 10V M | |
| C7609 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C7610 | NCB20JM-475X | C CAPACITOR | 4.7uF 6.3V M | |
| C7611 | NCB20JM-475X | C CAPACITOR | 4.7uF 6.3V M | |
| C7613 | NCB20JM-475X | C CAPACITOR | 4.7uF 6.3V M | |
| C7614 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C7616 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C7617 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C7621 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C7622 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C7623 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C7624 | NCB31CK-103X | C CAPACITOR | 0.01uF 16V K | |
| C7625 | NCB31CK-103X | C CAPACITOR | 0.01uF 16V K | |
| C7626 | NCB31CK-103X | C CAPACITOR | 0.01uF 16V K | |
| C7627 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C7701 | NCB10JK-106X | C CAPACITOR | 10uF 6.3V K | |
| C7703 | NFV91HJ-183X | MPPS CAPACITOR | 0.018uF 50V J | |
| C7704 | NCZ1016-150X | C CAPACITOR | 15pF 2kV J | |
| C7705 | NCZ1016-150X | C CAPACITOR | 15pF 2kV J | |
| R7601 | NRVA63D-433X | CMF RESISTOR | 43kΩ 1/16W D | |
| R7602 | NRVA63D-433X | CMF RESISTOR | 43kΩ 1/16W D | |
| R7603 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R7604 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R7605 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R7606 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R7607 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R7701 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R7702 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R7703 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| L7601 | NQL38DK-100X | P COIL | 10uH K | |
| L7602 | NQL38DK-100X | P COIL | 10uH K | |
| L7603 | NQR0129-002X | FERRITE BEADS | | |
| L7604 | NQR0129-002X | FERRITE BEADS | | |
| L7701 | NQLZ010-220X | COIL | 22uH | |
| L7702 | NQLZ010-680X | COIL | 68uH | |
| T7701 | NQS0060-001X | SW TARNSF | | |
| CN601 | QGA0503F1-20X | CONNECTOR | MONI-REAR W-B (1-20) | |
| CN602 | QGF0538F1-24X | CONNECTOR | 0.5P 24P FFC/FPC (1-24) | |
| ⚠ F7701 | NMFZ007-R40X-K | FUSE | 0.4A 50V | |
| OT1 | LY30034-0S8A | SPACER(A) | (x2) | |
| OT2 | LY45065-001A | S.SHEET(MON.P) | IC7601 | |
| WR1 | QAL0464-001 | FPC | HALL IC | |

## SD BOARD ASSEMBLY <07>

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| PW4 | LYA10050-01B4 | SD BOARD ASSY | | |
| C701 | NBE20JM-106X | TA E CAPACITOR | 10uF 6.3V M | |
| C703 | NCB31AK-105X | C CAPACITOR | 1uF 10V K | |
| R701 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |

| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| R702 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R703 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R704 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R705 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R706 | NRSA6AJ-103W | MG RESISTOR | 10kΩ 1/16W J | |
| R707 | NRSA6AJ-473W | MG RESISTOR | 47kΩ 1/16W J | |
| R708 | NRSA6AJ-220W | MG RESISTOR | 22Ω 1/16W J | |
| R709 | NRSA6AJ-220W | MG RESISTOR | 22Ω 1/16W J | |
| R710 | NRSA6AJ-220W | MG RESISTOR | 22Ω 1/16W J | |
| R711 | NRSA6AJ-220W | MG RESISTOR | 22Ω 1/16W J | |
| R712 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R713 | NRSA6AJ-0R0W | MG RESISTOR | 0Ω 1/16W J | |
| R721 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R722 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| CN701 | QGF0309F1-25X | CONNECTOR | MAIN FFC/FPC (1-25) | |
| CN702 | NNZ0134-001X | SD CARD CONNE | SDIO | |
| CN703 | QGF0543F1-06X | CONNECTOR | ZOOM FFC/FPC (1-6) | |
| CN704 | QGA1001F1-02X | CONNECTOR | SPEAKER W-B (1-2) | |
| OT1 | LY45038-001A | SHEET(SD) | | |

## EJECT/TRIG BOARD ASSEMBLY <09>

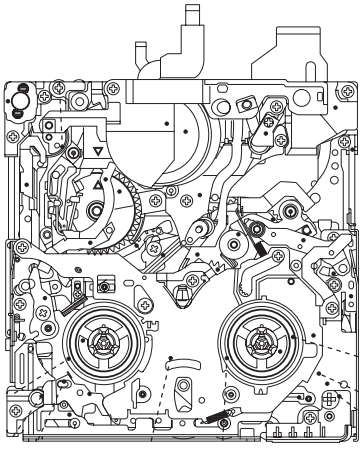
| ⚠ Symbol No. | Part No. | Part Name | Description | Local |
|---|---|---|---|---|
| PW3 | LYA10050-01B3 | EJECT/TRIG BOARD ASSY | | |
| R901 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R902 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| CN901 | QGF0517F2-12X | CONNECTOR | MAIN FFC/FPC (1-12) | |
| CN902 | QGF0532F2-08X | CONNECTOR | P_OPE UNIT FFC/FPC (1-8) | |
| S901 | NSW0198-001X | TACT SWITCH | TRIG | |
| S902 | NSW0254-001X | DETECT SWITCH | EJECT | |
| S903 | NSW0099-001X | SLIDE SWITCH | | |
| WR1 | WJT0172-001A-E | E-CARD WIRE | EJECT-MAIN | |

JVC

# SERVICE MANUAL

## MECHANISM ASSEMBLY

# DVC MECHANISM
# VHS-C MECHANISM
# VHS MECHANISM



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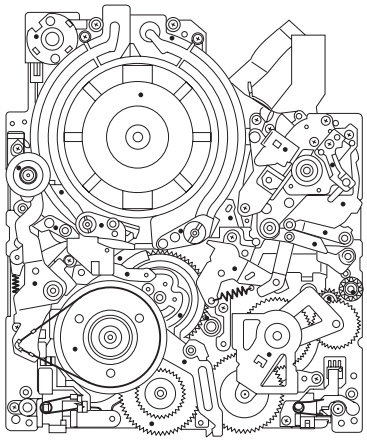

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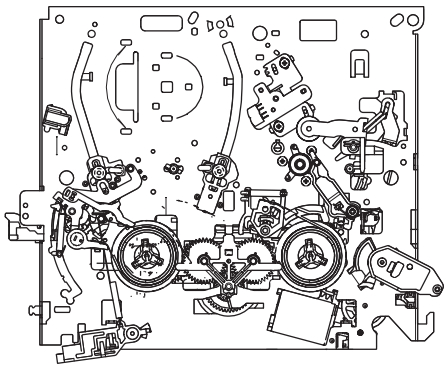

<VHS MECHANISM>

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2003/04

# SECTION 1
# JIGS AND TOOLS

## 1.1 TOOLS REQUIRED FOR ADJUSTMENTS

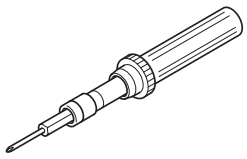
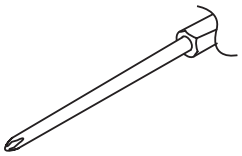
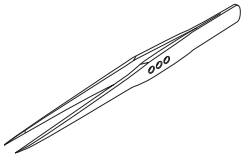
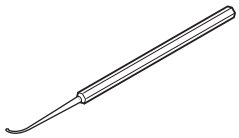
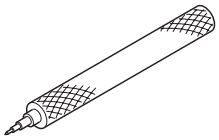
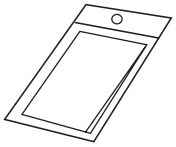
| | |
|---|---|
| 1. Torque driver<br>YTU94088 | 2. Bit<br>YTU94088-003 |
|  |  |
| 3. Tweezers<br>P-895 | 4. Chip IC replacement jig<br>PTS40844-2 |
|  |  |
| 5. Slit washer installation jig<br>YTU94121A | 6. Cleaning cloth<br>KSMM-01 |
|  |  |

Fig.1-1-1

**1. Torque driver**
Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.

**2. Bit**
This bit is slightly longer than those set in conventional torque drivers.

**3. Tweezers**
To be used for removing and installing parts and wires.

**4. Chip IC replacement jig**
To be used for replacement of part.

**5. Slit washer installation jig**
To be used to install slit washers.

**6. Cleaning cloth**
Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

# SECTION 2
# SPECIFIC SERVICE INSTRUCTIONS

## 2.1 DVC MECHANISM

### 2.1.1 Precautions

(1) When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.055 N•m (0.56 kgf•cm).
(2) Be sure to disconnect the set from the power supply before fastening and soldering parts.
(3) When disconnecting/connecting wires, be careful not to get them and their connectors damaged.
(4) When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

### 2.1.2 Notes on procedure for disassembly/assembly

The disassembling procedure table (Fig. 2-1-10 on page 2-4,a part of the table is shown below for reference)shows the procedure to disassemble/reassemble mechanism parts.
Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers(circled numbers)in the following explanation correspond to those appearing under respective columns of the table.

**Example**

| NO. | PART NAME | | FIG. | POINT | NOTE | REMARKS |
|---|---|---|---|---|---|---|
| **[ 1 ]** | CASSETTE HOUSING ASSY | T | Fig.2-4-3 | 3(S1),(L1a)-(L1e) | **NOTE 1 a,b,c,d** | ADJUSTMENT |
| **[ 2 ]** | UPPER BASE ASSY | T | Fig.2-4-4 | (S2),(L2a),(L2b) | **NOTE 2** | |
| **[ 3 ]** | DRUM ASSY | T | | (S3a),2(S3b) | **NOTE 3 a,b** | |
| **[ 4 ]** | REEL DISK ASSY(SUP) | T | Fig.2-4-5 | (W4) | **NOTE 4 a** | |
| **[ 5 ]** | REEL DISK ASSY(TU) | T | | (W5a),(W5b),(W5c) | **NOTE 5 a,b** | |
| **[ 6 ]** | REEL COVER ASSY | T | | (W6),(S6a),2(S6b) | **NOTE 6** | ADJUSTMENT |

*1 *2 *3 *4 *5 *6 *7

*1 Numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.
*2 This column shows part names corresponding to numbers in the left column.
*3 The symbol (T or B)appearing in this column shows the side which the objective part is mounted on.
T =the upper side, B =the lower side
*4 Symbols appearing in this column indicate drawing numbers.
*5 This column indicates parts and points such as screws, washers,springs,and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.

P = Spring
W = Washer
S = Screw
* = Lock (L),soldering (SD),shield,connector (CN),etc.

**Example**

- Remove (W1)=Washer W1.
- Remove the solder at (SD1)=Point SD1.
- Disconnect A = Connector A.

*6 Numbers in this column represent the numbers of notes in the text.
(For parts that need phase adjustment after reassembling, refer to “MECHANISM ADJUSTMENTS”.)
*7 This column indicates required after-disassembling/-reassembling work such as phase adjustment or mechanism adjustment.

### 2.1.3 DISASSEMBLY AND ASSEMBLY OF MECHANISM ASSEMBLY

#### 2.1.3.1 General statement

The mechanism should generally be disassembled/assembled in the C.IN mode (ASSEMBLY mode). (Refer to Fig. 2-1-1,2-1-2.) However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, after the mechanism is removed from the main body, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the C IN mode compulsory.

**<Mechanism assembly/Cassette housing assembly>**

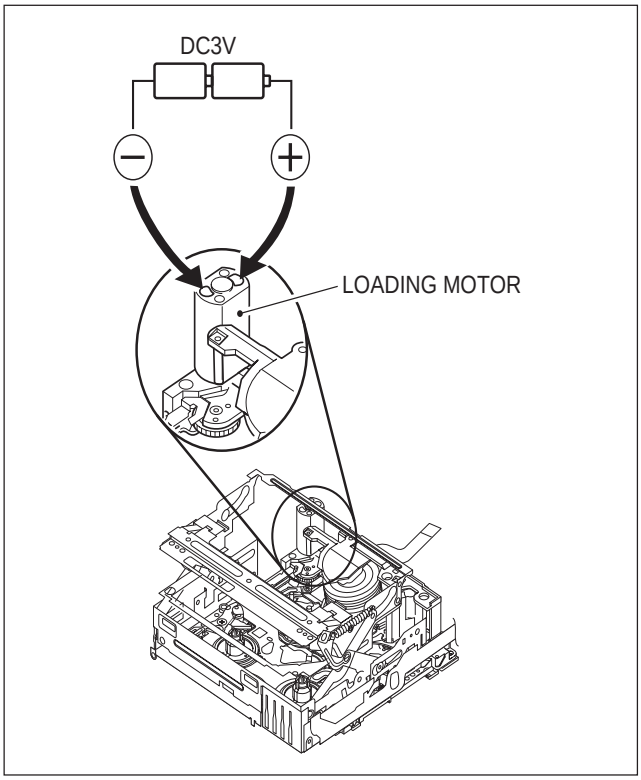



Fig.2-1-1

**<Back side of the mechanism assembly>**

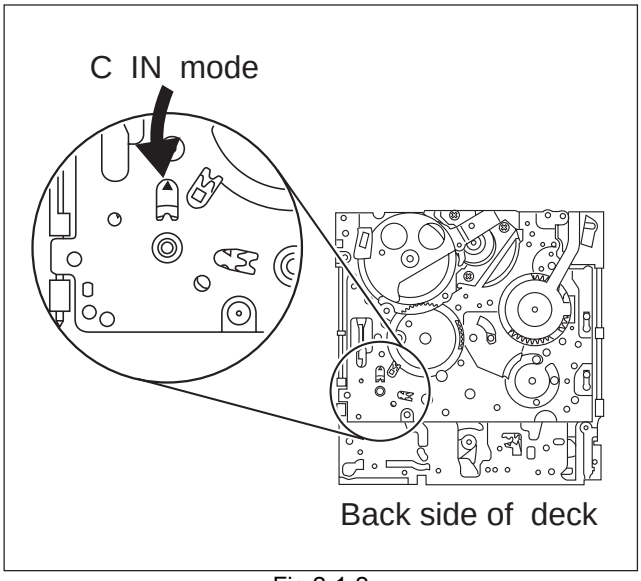



Fig.2-1-2

#### 2.1.3.2 Explanation of mechanism mode

The mechanism mode of this model is classified into five modes as shown in Fig. 2-1-9. Each mechanism mode can be distinguished from others by the relative position of "△", "○", "⬭", "□" marks on the sub cam gear to the inner or outer protrusion on the main deck.

Refer to Fig. 2-1-3 to 2-1-8 below.

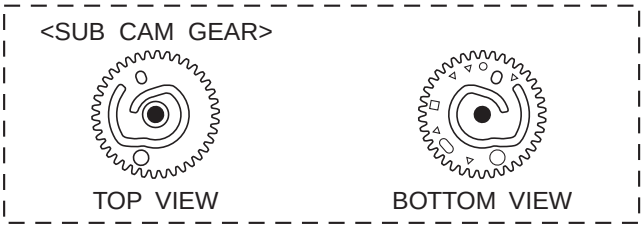



Fig.2-1-3

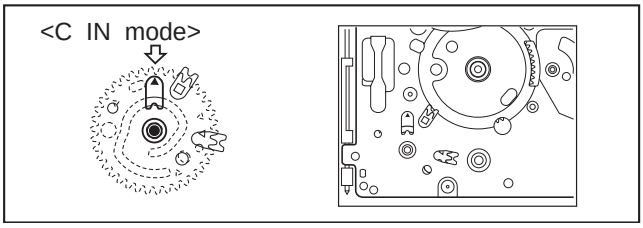



Fig.2-1-4

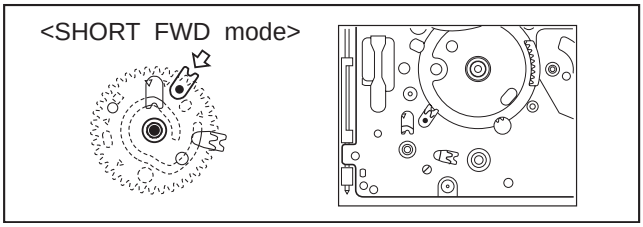



Fig.2-1-5

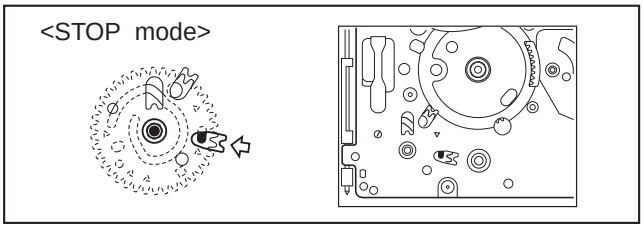



Fig.2-1-6

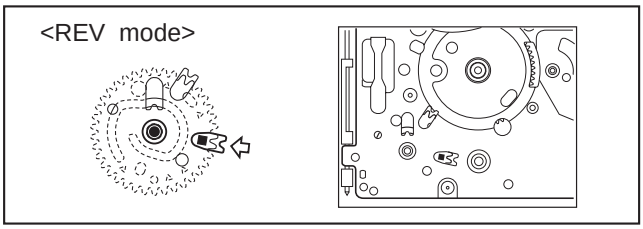



Fig.2-1-7

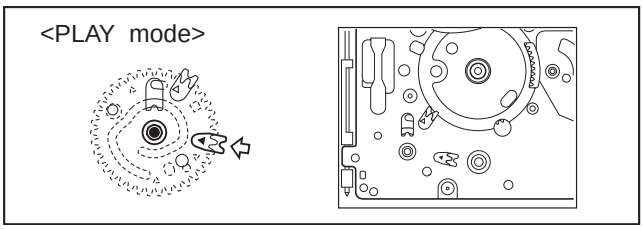



Fig.2-1-8

### 2.1.3.3 Mechanism timing chart

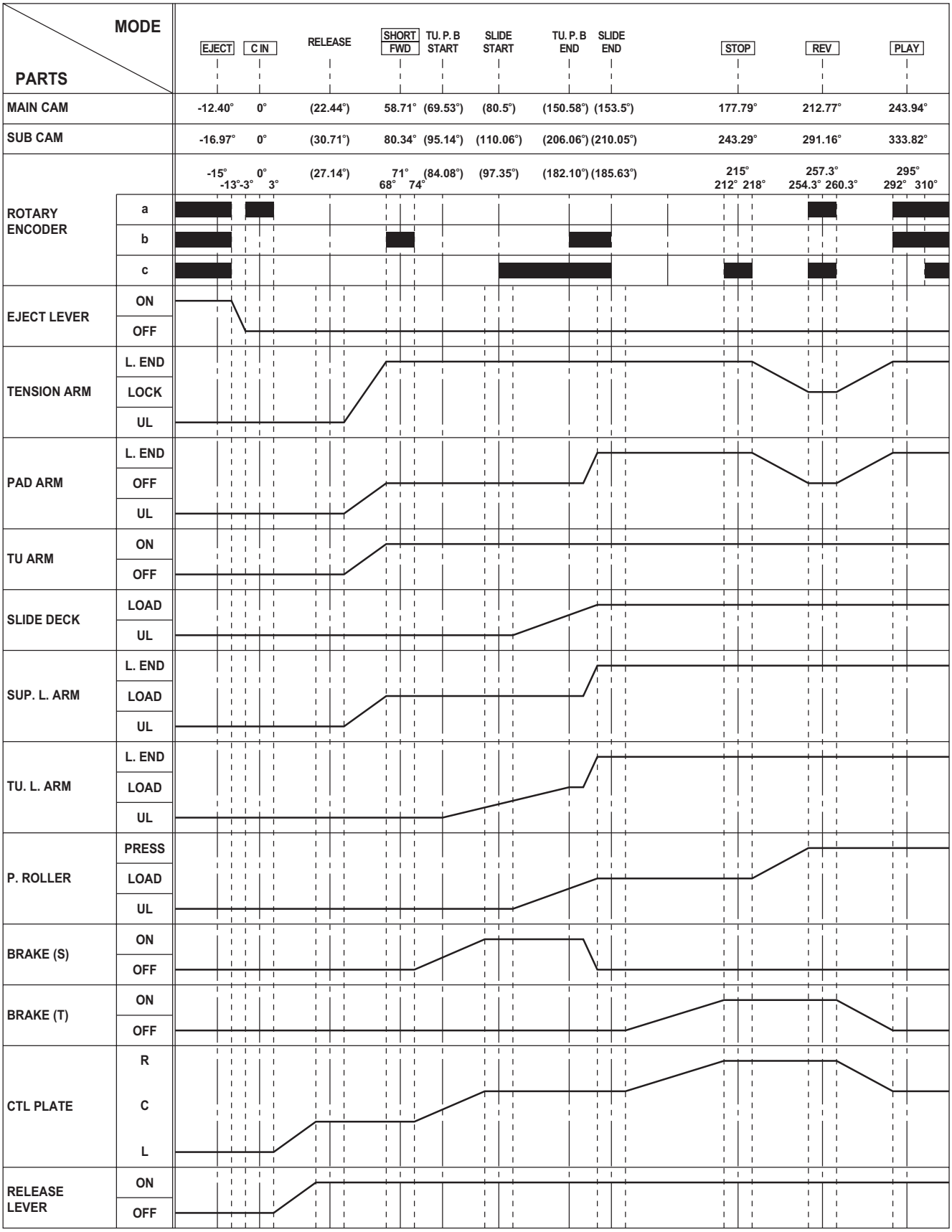


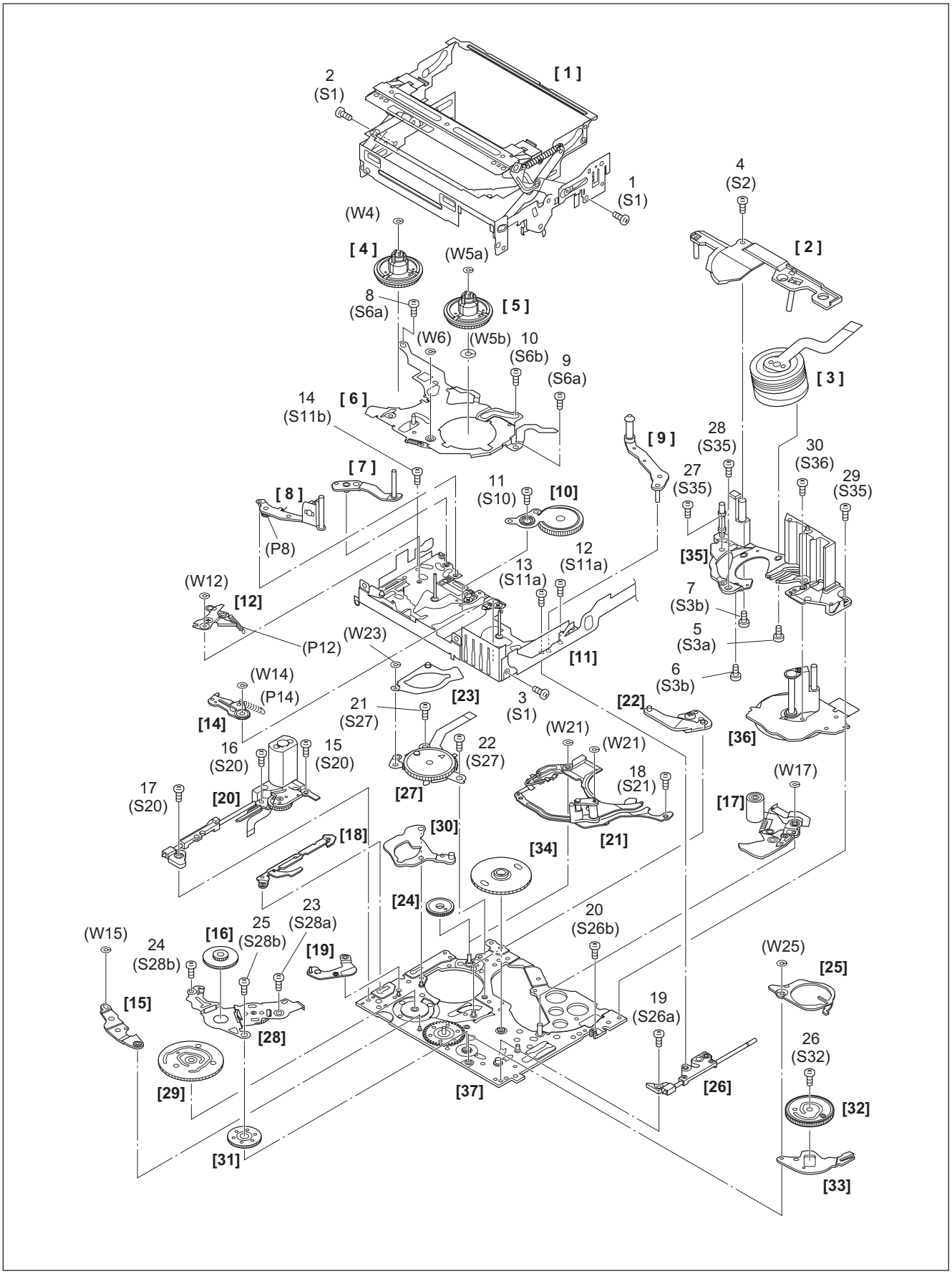

Fig.2-1-9

### 2.1.4 DISASSEMBLY PROCEDURE TABLE

MARK: # After assembly, perform adjustments.

| NO. | PART NAME | | FIG. | POINT | NOTE | REMARKS |
|---|---|---|---|---|---|---|
| **[ 1 ]** | CASSETTE HOUSING ASSY | T | Fig.2-1-14 | 3(S1),(L1a)-(L1e) | **NOTE 1 a,b,c,d** | ADJUSTMENT |
| **[ 2 ]** | UPPER BASE ASSY | T | Fig.2-1-15 | (S2),(L2a),(L2b) | **NOTE 2** | |
| **[ 3 ]** | DRUM ASSY | T | | (S3a),2(S3b) | **NOTE 3 a,b** | ADJUSTMENT |
| **[ 4 ]** | REEL DISK ASSY(SUP) | T | Fig.2-1-16 | (W4) | **NOTE 4** | |
| **[ 5 ]** | REEL DISK ASSY(TU) | T | | (W5a),(W5b) | **NOTE 5 a,b** | |
| **[ 6 ]** | REEL COVER ASSY | T | | (W6),2(S6a),(S6b) | **NOTE 6** | |
| **[ 7 ]** | TENSION ARM ASSY | T | Fig.2-1-17 | (L7) | **NOTE 7** | ADJUSTMENT / # |
| **[ 8 ]** | SLANT POLE ARM ASSY | T | | (P8) | **NOTE 8** | ADJUSTMENT |
| **[ 9 ]** | TU ARM ASSY | T | | (L9) | **NOTE 9** | ADJUSTMENT |
| **[10]** | SWING ARM ASSY | T | | (S10) | **NOTE 10** | ADJUSTMENT |
| **[11]** | SLIDE DECK ASSY | T | Fig.2-1-18 | 2(S11a),(S11b),2(L11a),<br>2(L11b),(L11c) | **NOTE 11a,b** | ADJUSTMENT / # |
| **[12]** | PAD ARM ASSY | T | Fig.2-1-19 | (P12),(L12),(W12) | **NOTE 12** | ADJUSTMENT / # |
| **[13]** | - | - | | - | - | |
| **[14]** | TU BRAKE ASSY | T | | (P14),(L14),(W14) | **NOTE 14** | ADJUSTMENT |
| **[15]** | TENSION CTL LEVER ASSY | T | Fig.2-1-20 | (W15) | **NOTE 15** | ADJUSTMENT |
| **[16]** | CENTER GEAR | T | | - | **NOTE 16** | |
| **[17]** | PINCH ROLLER ARM F. ASSY | T | | (W17) | **NOTE 17** | ADJUSTMENT |
| **[18]** | TENSION CTL PLATE ASSY | T | | - | **NOTE 18** | ADJUSTMENT |
| **[19]** | BRAKE CTL LEVER ASSY | T | | - | **NOTE 19** | ADJUSTMENT |
| **[20]** | MOTOR BRACKET ASSY | T | Fig.2-1-21 | 3(S20),(L20a),2(L20b) | **NOTE 20** | ADJUSTMENT |
| **[21]** | GUIDE RAIL ASSY | T | | 2(W21),(S21),2(L21a),(L21b) | **NOTE 21** | ADJUSTMENT |
| **[22]** | SLIDE LEVER 2 ASSY | T | | - | **NOTE 22** | ADJUSTMENT / # |
| **[23]** | LOADING PLATE ASSY | T | | (W23) | **NOTE 23** | ADJUSTMENT |
| **[24]** | MODE GEAR | T | | - | **NOTE 24** | |
| **[25]** | EJECT LEVER | T | | (W25) | **NOTE 25** | ADJUSTMENT |
| **[26]** | BASE R ASSY | T | Fig.2-1-22 | (S26a),(S26b),2(L26) | **NOTE 26** | ADJUSTMENT |
| **[27]** | ROTARY ENCODER | T | | 2(S27) | **NOTE 27** | PHASE ADJUSTMENT |
| **[28]** | GEAR COVER ASSY | T | | (S28a),2(S28b) | - | |
| **[29]** | MAIN CAM ASSY | T | | - | **NOTE 29** | PHASE ADJUSTMENT |
| **[30]** | SLIDE ARM ASSY | T | Fig.2-1-23 | - | **NOTE 30** | ADJUSTMENT |
| **[31]** | CONNECT GEAR 2 | T | | - | **NOTE 31** | |
| **[32]** | SUB CAM ASSY | T | | (S32) | **NOTE 32** | PHASE ADJUSTMENT |
| **[33]** | CONTROL ARM ASSY | T | | - | **NOTE 33** | ADJUSTMENT |
| **[34]** | REEL GEAR 1 | T | | - | **NOTE 34** | |
| **[35] / [36]** | DRUM BASE ASSY/<br>CAPSTAN MOTOR | T | Fig.2-1-24 | 3(S35) | **NOTE 35a,b** | ADJUSTMENT |
| **[36]** | CAPSTAN MOTOR | T | | (S36) | **NOTE 36** | ADJUSTMENT |
| **[37]** | MAIN DECK ASSY | T | | - | - | |

Fig.2-1-10


2
(S1)
[ 1 ]
1
(S1)
4
(S2)
(W4)
[ 4 ]
(W5a)
[ 2 ]
8
(S6a)
[ 5 ]
(W6)
(W5b)
10
(S6b)
9
(S6a)
[ 3 ]
14
(S11b)
[ 6 ]
[ 9 ]
28
(S35)
30
(S36)
[ 7 ]
27
(S35)
29
(S35)
[ 8 ]
11
(S10)
[10]
(P8)
12
(S11a)
[35]
(W12)
13
(S11a)
7
(S3b)
[12]
5
(S3a)
(P12)
(W23)
[11]
6
(S3b)
(W14)
[23]
3
(S1)
[22]
(P14)
21
(S27)
[14]
(W21)
[36]
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(S20)
15
(S20)
22
(S27)
(W21)
(W17)
17
(S20)
[20]
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18
(S21)
[17]
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[21]
[24]
20
(S26b)
(W15)
23
(S28a)
25
(S28b)
[16]
(W25)
24
(S28b)
[19]
[25]
[15]
19
(S26a)
[28]
26
(S32)
[29]
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[26]
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[31]
[33]

Fig.2-1-11

**< TOP VIEW >**

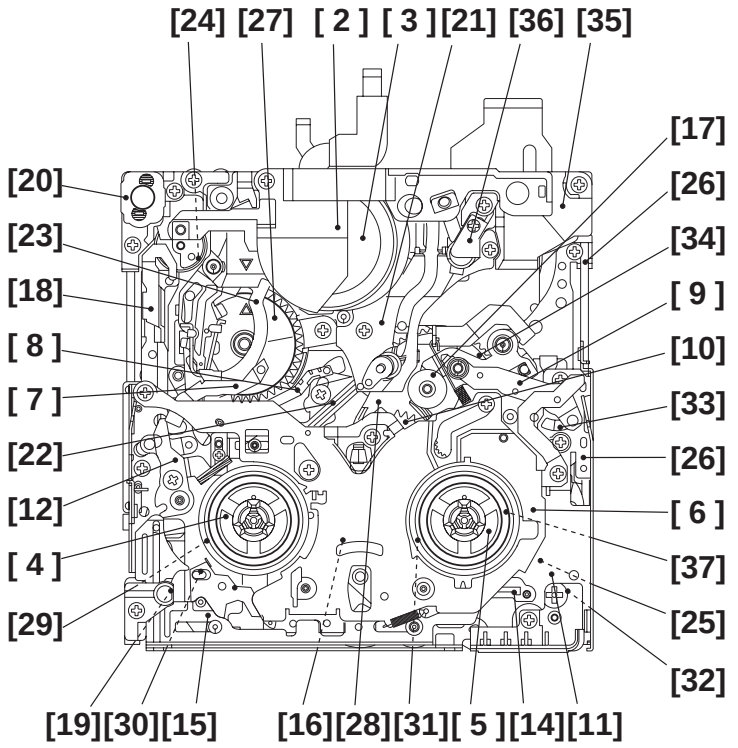



Fig.2-1-12

**< BOTTOM VIEW >**

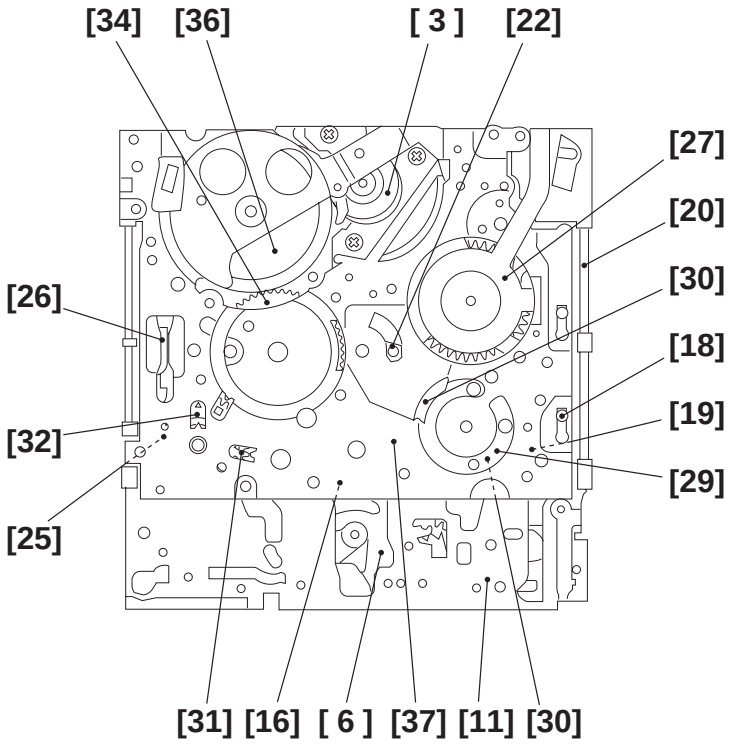



Fig.2-1-13

### 2.1.5 DISASSEMBLY/ASSEMBLY

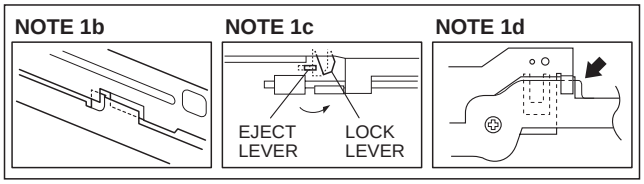
#### 2.1.5.1 [ 1 ] CASSETTE HOUSING ASSY

**NOTE 1a:**
Be careful not to damage any of the parts during work.

**NOTE 1b:**
Special care is required in mounting.

**NOTE 1c:**
When mounting, the CASSETTE HOUSING ASSY should be attached in the Eject status. Pay heed to the positions of the LOCK LEVER and EJECT LEVER during mounting.

**NOTE 1d:**
When mounting, be sure to locate the FPC in the gap.



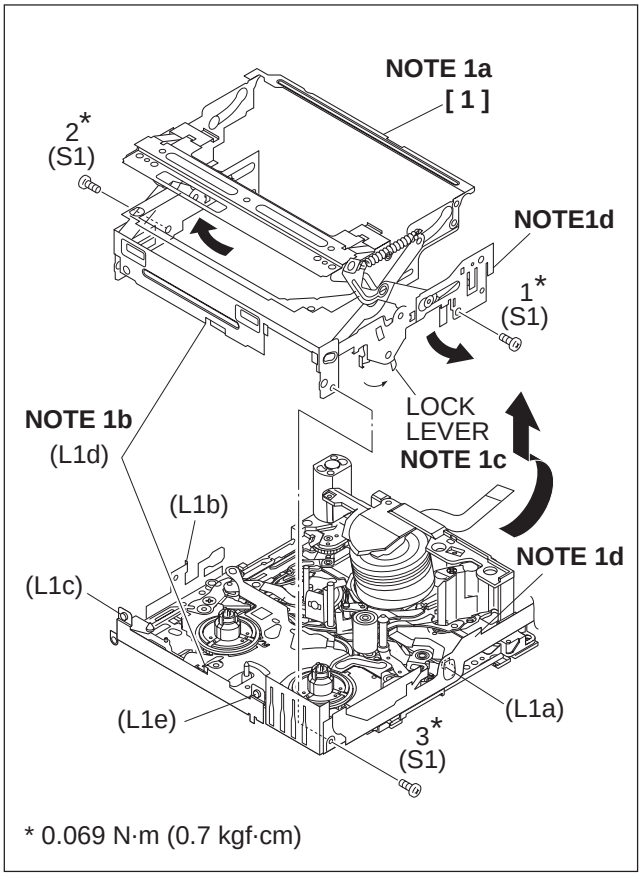



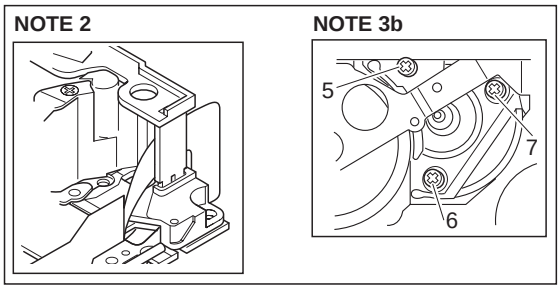

Fig.2-1-14

#### 2.1.5.2 [ 2 ] UPPER BASE ASSY
#### [ 3 ] DRUM ASSY

**NOTE 2:**
When mounting, be sure to insert the FPC reinforcing sheet.

**NOTE 3a:**
Be mindful of scratches or damage during work.

**NOTE 3b:**
Be careful not to attach screws incorrectly.



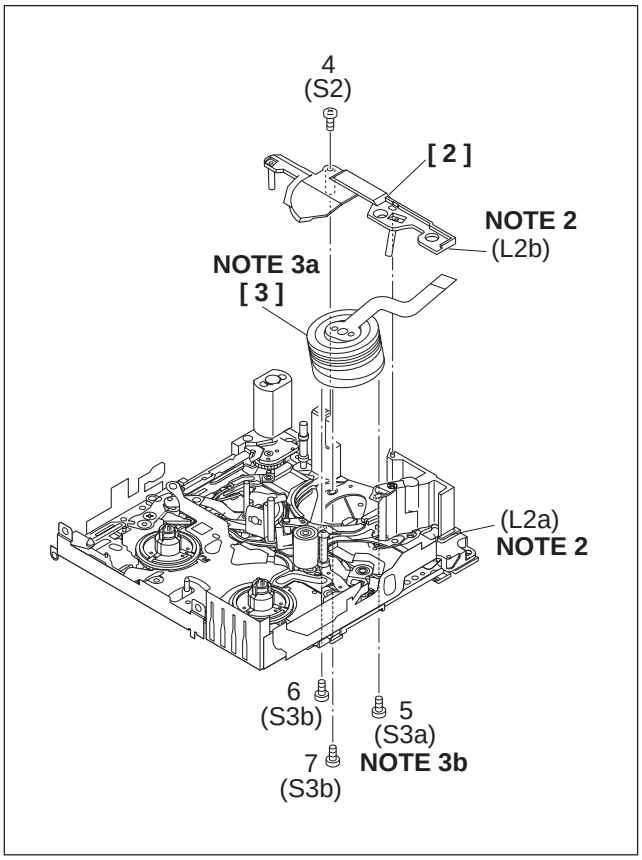




Fig.2-1-15

### 2.1.5.3 [ 4 ] REEL DISK ASSY(SUP)
### [ 5 ] REEL DISK ASSY(TU)
### [ 6 ] REEL COVER ASSY

**NOTE 4:**

Be careful not to attach the REEL DISK wrongly. The Supply side can be identified by the white color at the center.

**NOTE 5a:**

Be careful not to attach the REEL DISK wrongly. The Take-up side can be identified by the black color at the center.

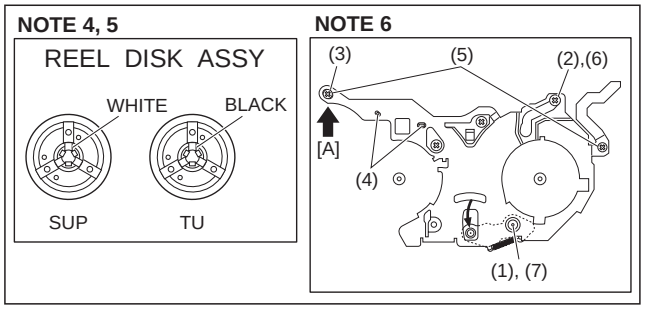
**NOTE 5b**

The washer is inserted under the REEL DISK.
Be carefull not to lose the washer.
Two washers are inserted under the REEL DISK in some products manufactured earlier, but one washer is inserted in the products manufactured recently and in the future.
See the parts list, and use the parts written in the parts list.

**NOTE 6:**

Perform the following steps for mounting.

(1) Align the hole with the pin.
(2) Attach the **[17]** PINCH ROLLER ARM FINAL ASSY by aligning the positions.
(3) Attach the SLIDE DECK ASSY (POINT[A]) by aligning the positions.
(4) Check that the parts below them are located in the correct positions.
(5) Tighten the 2 screws.
(6) Tighten the screw.
(7) Attach the 1 SLIT WASHER parts.



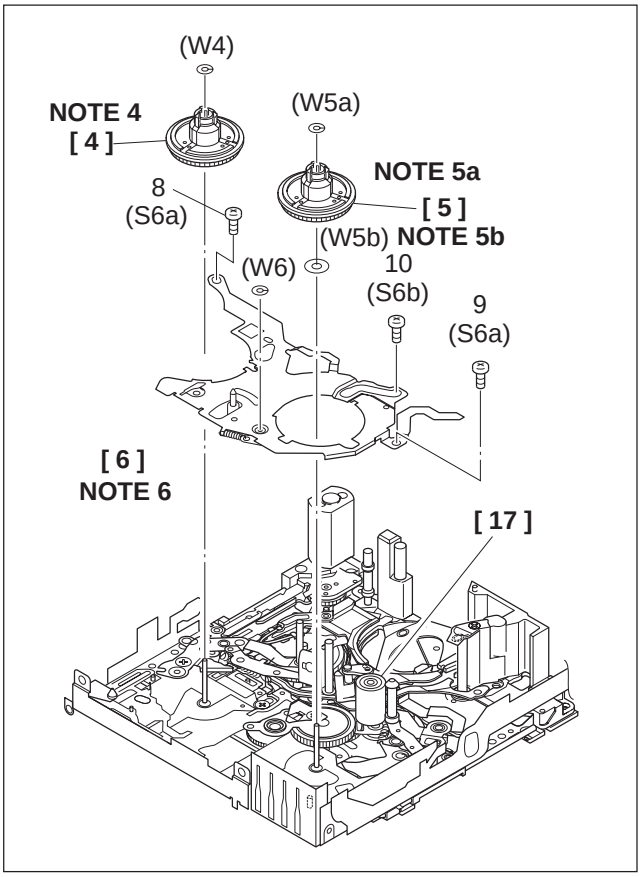




Fig.2-1-16

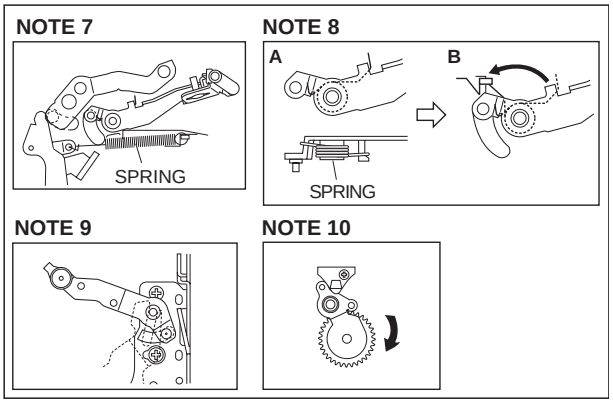
**2.1.5.4 [ 7 ] TENSION ARM ASSY**
**[ 8 ] SLANT POLE ARM ASSY**
**[ 9 ] TU ARM ASSY**
**[10] SWING ARM ASSY**

**NOTE 7:**
When detaching, remove the spring of the **[12]** PAD ARM ASSY in advance.
Pay attention to the attachment position.

**NOTE 8:**
When mounting the SLANT POLE ARM ASSY, hook the spring onto the lug as in diagram A, and fit the combination onto the SLIDE DECK ASSY. After fitting, hook the spring onto the lug of the SLIDE DECK ASSY as in diagram B.
Be careful not to lose the spring.

**NOTE 9:**
Pay attention to the attachment position.

**NOTE 10:**
When detaching, remove the screw then remove the SWING ARM ASSY by pulling it up and turning it.



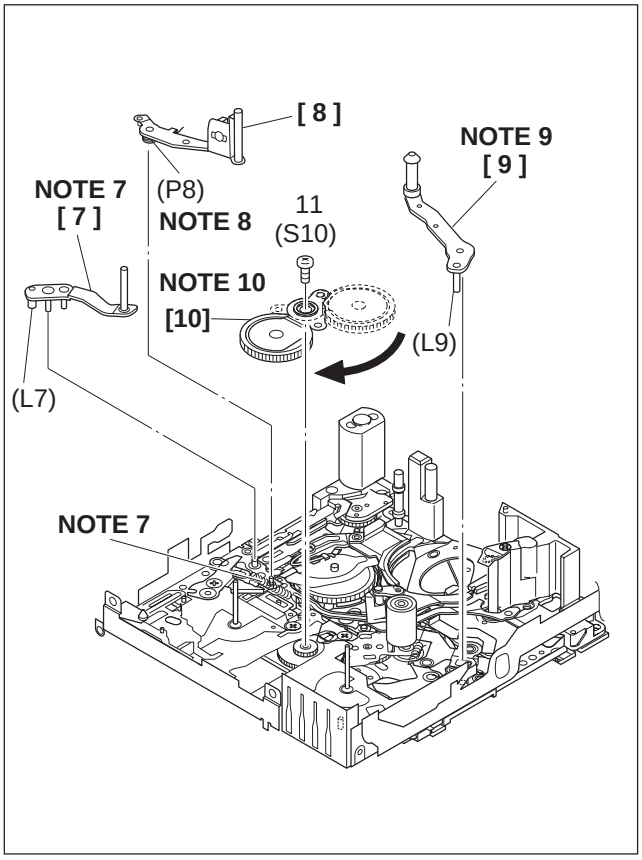




Fig.2-1-17

### 2.1.5.5 [11] SLIDE DECK ASSY

**NOTE 11a:**

Each of the parts on the SLIDE DECK ASSY can be replaced separately.

When detaching the assembly, if there is no need to replace any of its parts, remove the SLIDE DECK ASSY as it is.

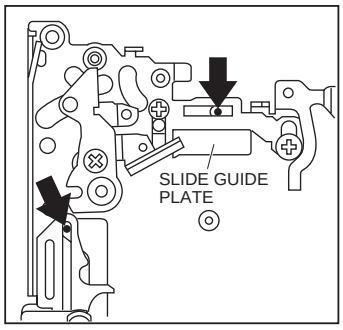
**NOTE 11b:**

When mounting, pay attention to the positions of the **[22]** SLIDE LEVER 2 ASSY studs and the **[19]** BRAKE CTL LEVER ASSY.

When mounting, position the CONTROL PLATE on the left side.

Pay attention to the position of the SLIDE GUIDE PLATE during mounting.

**NOTE 11b**



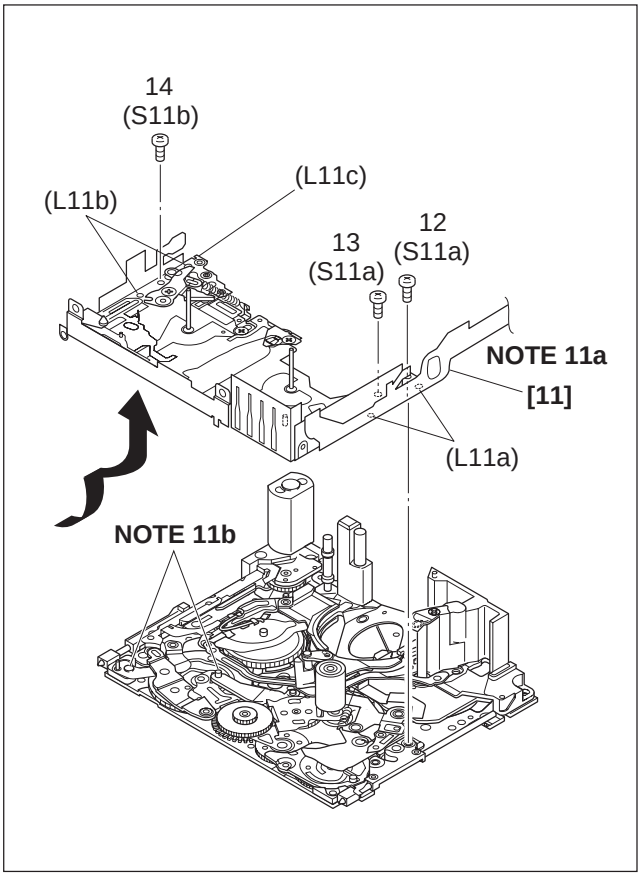




Fig.2-1-18

### 2.1.5.6 [12] PAD ARM ASSY
### [13] -
### [14] TU BRAKE ASSY

**NOTE 12:**

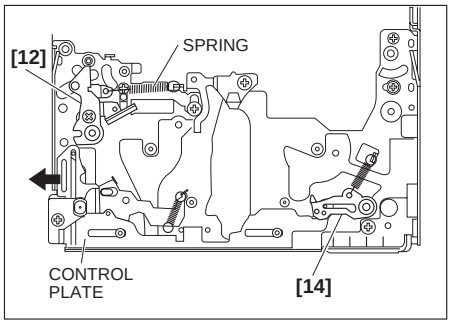
The spring may have already been disengaged when the **[ 8 ]** SLANT POLE ARM ASSY was removed.

**NOTES 14:**

When mounting, pay attention to the correct positioning.

Mount the CONTROL PLATE by moving it fully toward the left side.

**NOTE 12,14**



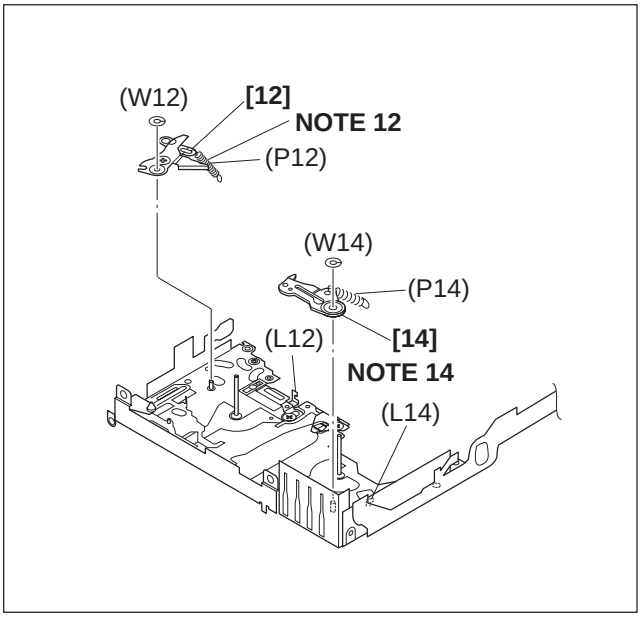



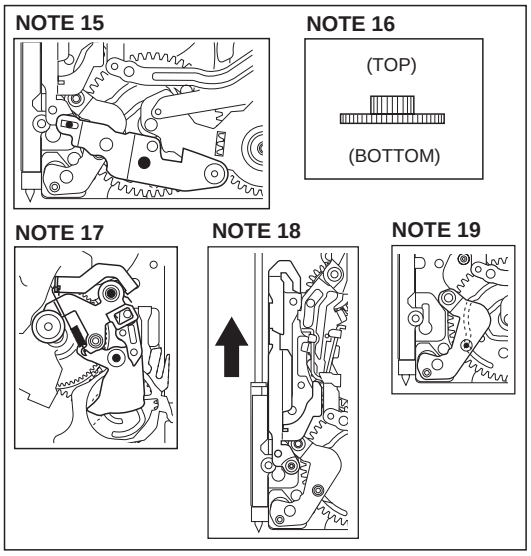

Fig.2-1-19

**2.1.5.7 [15] TENSION CTL LEVER ASSY**
**[16] CENTER GEAR**
**[17] PINCH ROLLER ARM FINAL ASSY**
**[18] TENSION CTL PLATE ASSY**
**[19] BRAKE CTL LEVER ASSY**

**NOTES 15/16:**
When mounting, pay attention to the correct positioning.

**NOTE 17:**
Take care against grease attachment during work.

**NOTES 18/19:**
When mounting, pay attention to the correct positioning.



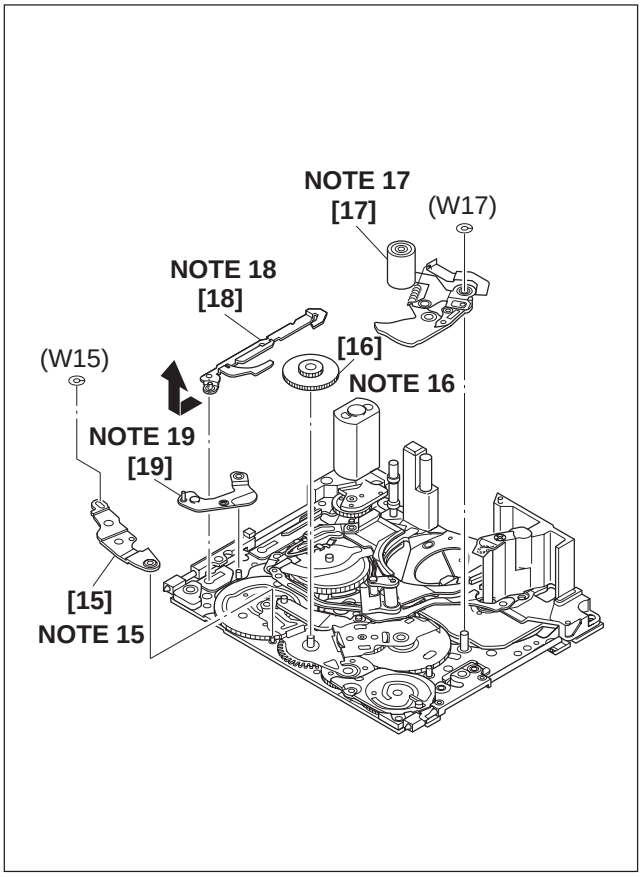



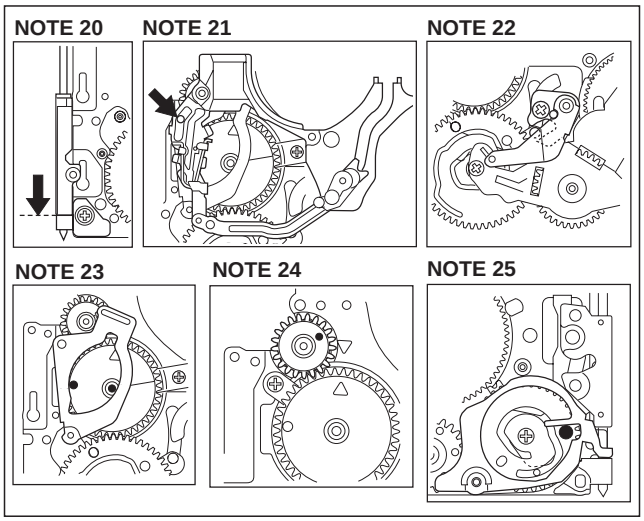

Fig.2-1-20

**2.1.5.8 [20] MOTOR BRACKET ASSY**
**[21] GUIDE RAIL ASSY**
**[22] SLIDE LEVER 2 ASSY**
**[23] LOADING PLATE ASSY**
**[24] MODE GEAR**
**[25] EJECT LEVER**

**NOTE 20:**
When mounting, pay attention to the positioning of the sliding parts.

**NOTE 21:**
When mounting, take care that no part is allowed to float or rattle.

**NOTES 22/23/24/25:**
When mounting, pay attention to the correct positioning.



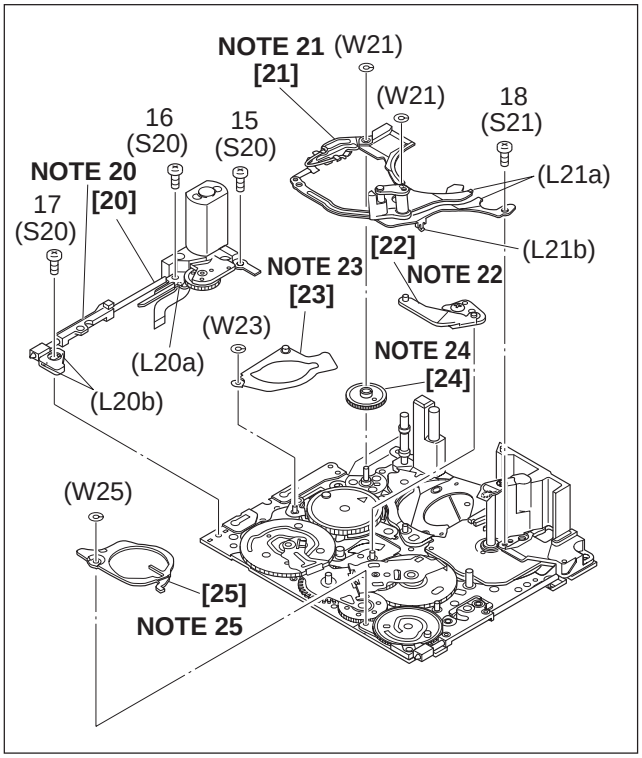



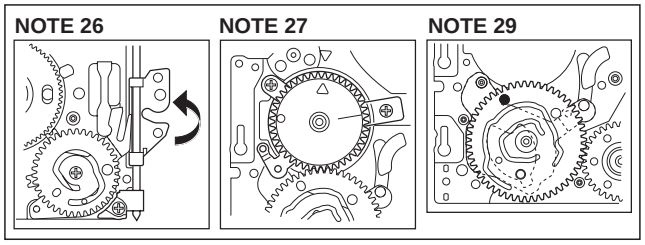

Fig.2-1-21

**2.1.5.9 [26] BASE R ASSY**
**[27] ROTARY ENCODER**
**[28] GEAR COVER ASSY**
**[29] MAIN CAM ASSY**

**NOTE 26:**
When mounting, fold the sliding part to the inner side.

**NOTE 27:**
When mounting, pay attention to the correct positioning and the FPC layout.

**NOTE 29:**
When mounting, pay attention to the correct positioning.



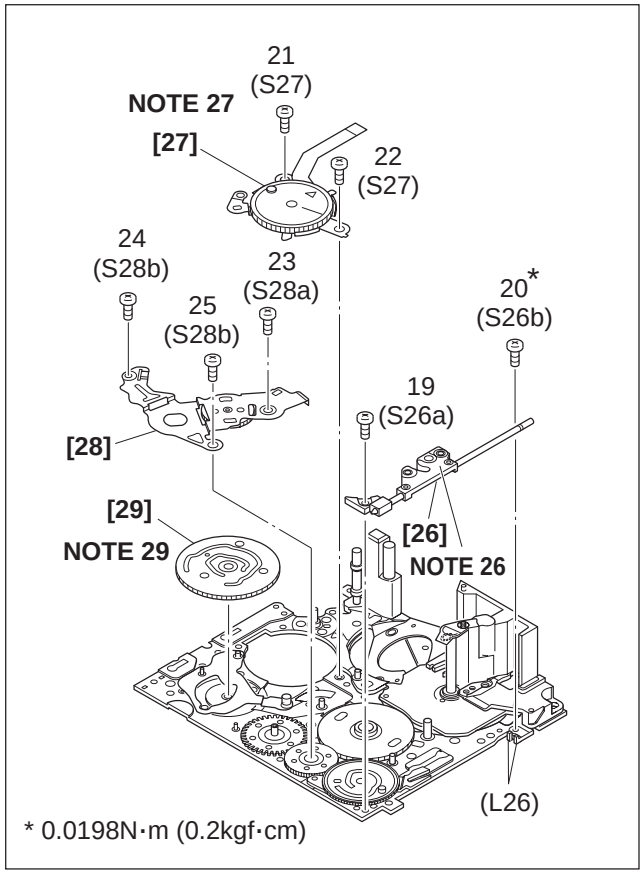



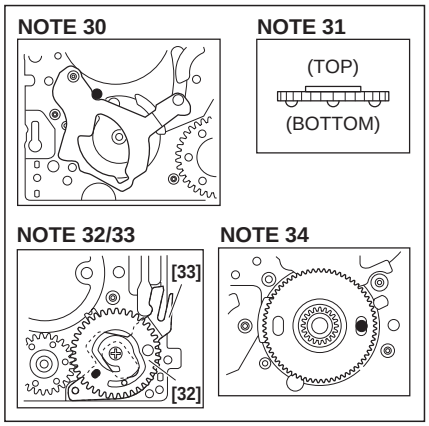

Fig.2-1-22

**2.1.5.10 [30] SLIDE ARM ASSY**
**[31] CONNECT GEAR 2**
**[32] SUB CAM ASSY**
**[33] CONTROL ARM ASSY**
**[34] REEL GEAR 1**

**NOTE 30:**
When mounting, pay attention to the correct positioning.

**NOTE 31:**
When mounting, pay attention to the position of the front and back.

**NOTES 32/33/34:**
When mounting, pay attention to the correct positioning.



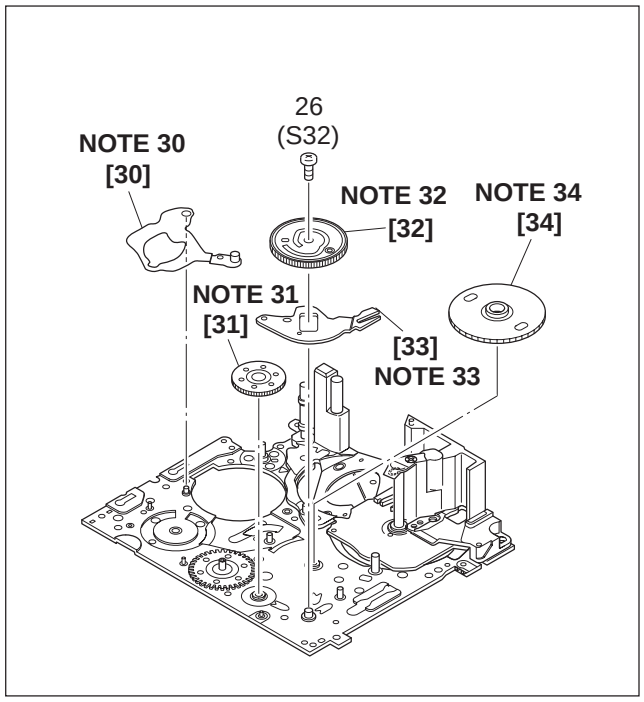




Fig.2-1-23

### 2.1.5.11 [35] DRUM BASE ASSY
### [36] CAPSTAN MOTOR
### [37] MAIN DECK ASSY

**NOTES 35a/36:**

Since [36]CAPSTAN MOTOR is attached to [35]DRUM BASE ASSY, remove [36]CAPSTAN MOTOR together with [35]DRUM BASE ASSY when removing [36]CAPSTAN MOTOR.

[36]CAPSTAN MOTOR should not be separated from [35]DRUM BASE ASSY except when replacing them.

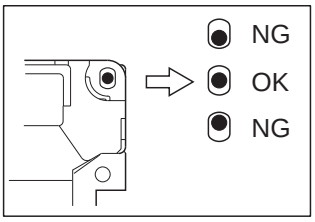
**NOTE 35b:**

It is very important to attach [35]DRUM BASE ASSY to the proper position.

Especially, improper engagement of [36]CAPSTAN MOTOR with [34]REEL GEAR 1 causes operational defection or abnormal sound. Therefore, confirm the attachment position before disassembly procedure.

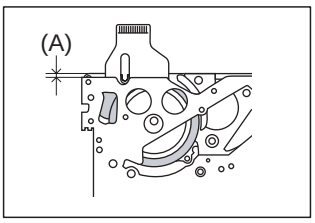
See the following figure as for the proper attachment position.

**NOTE 35b**



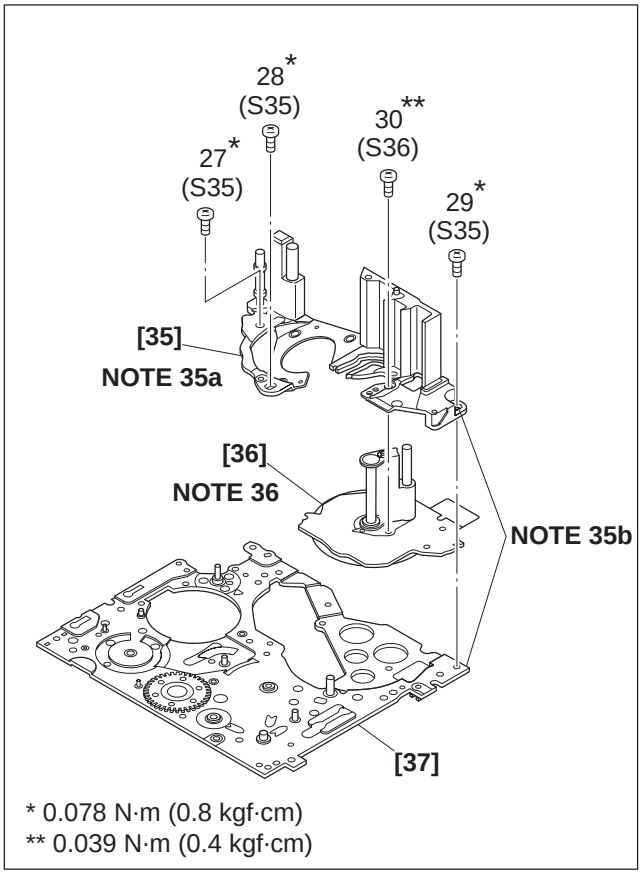

When [35]DRUM BASE ASSY is properly attached, the screw hole tends to be located at the center of the oval.

When the screw hole is located far from the center of the oval, operational defection or abnormal sound may occur.




Before removing [35]DRUM BASE ASSY, confirm the position of [35]DRUM BASE ASSY by seeing the length (A), as shown in the left figure.

When reattaching [35]DRUM BASE ASSY, confirm the position to reattach [35]DRUM BASE ASSY by seeing the length (A). Be sure to reattach [35]DRUM BASE ASSY to the same position as it has been before the removing procedure.




* 0.078 N·m (0.8 kgf·cm)
** 0.039 N·m (0.4 kgf·cm)

Fig.2-1-24

### 2.1.6 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE

**[24]MODE GEAR**

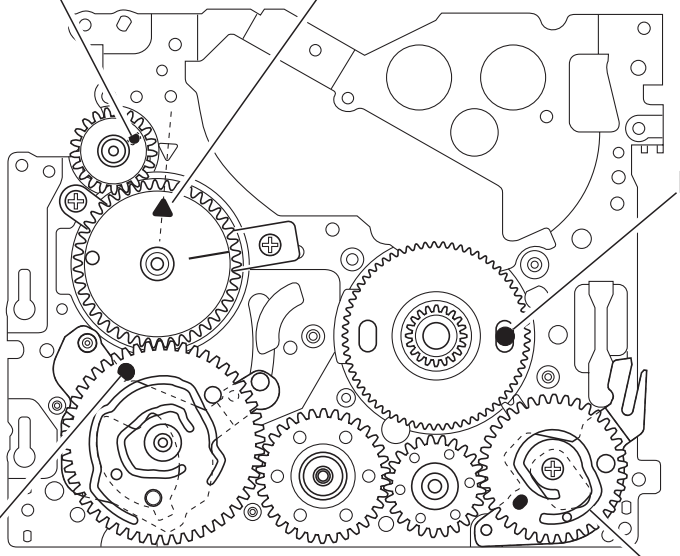
Align the MODE GEAR with the Main Deck Assembly hole.

**Note:**
The MODE GEAR may be displaced during the mechanism operation, however it can be checked from the rear and realigned during manual assembly.

**[27]ROTARY ENCODER**

Mount the ROTARY ENCODER by aligning its mark (△) and the mark (▽) of the Main Deck Assembly.

**Note:**
Be careful when handling the FPC during mounting.



**[34]REEL GEAR 1**

Align the REEL GEAR 1 with the Main Deck Assembly hole.

**Note:**
The REEL GEAR 1 may be displaced during mechanism operation, however this can be checked from the rear and realigned during manual assembly.

**[29]MAIN CAM ASSY/[30]SLIDE ARM ASSY**

When mounting the SLIDE ARM ASSY align it with the Main Deck Assembly and MAIN CAM ASSY holes.

**Note:**
During the mounting procedure, make sure that the[32] SUB CAM ASSY is in the correct mounting position.

**[32]SUB CAM ASSY/[33] CONTROL ARM ASSY**

Mount the SUB CAM ASSY hole to align with the CONTROL ARM ASSY and Main Deck Assembly holes and then tighten them all together with a screw.

**Note:**
When mounting it, make sure that the[29]MAIN CAM ASSY is in the correct mounting position.

Fig.2-1-25

### 2.1.7 MECHANISM ADJUSTMENTS

#### 2.1.7.1 Adjustment of the slide guide plate

Use Fig. 2-1-26 as the reference unless otherwise specified.

(1) Set the PLAY mode. See Fig. 2-1-8.
(2) Loosen the screws (**A**, **B**).
(3) With the Main Deck and Slide Deck Assemblies pushed into the unit, tighten the screws (**A**, **B**) while applying pressure to the stud (shaft) on the Slide Guide plate.
The pressure applied should be enough to enable utilization of the rebounding force of the springs.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).
(4) Check the operation.
Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

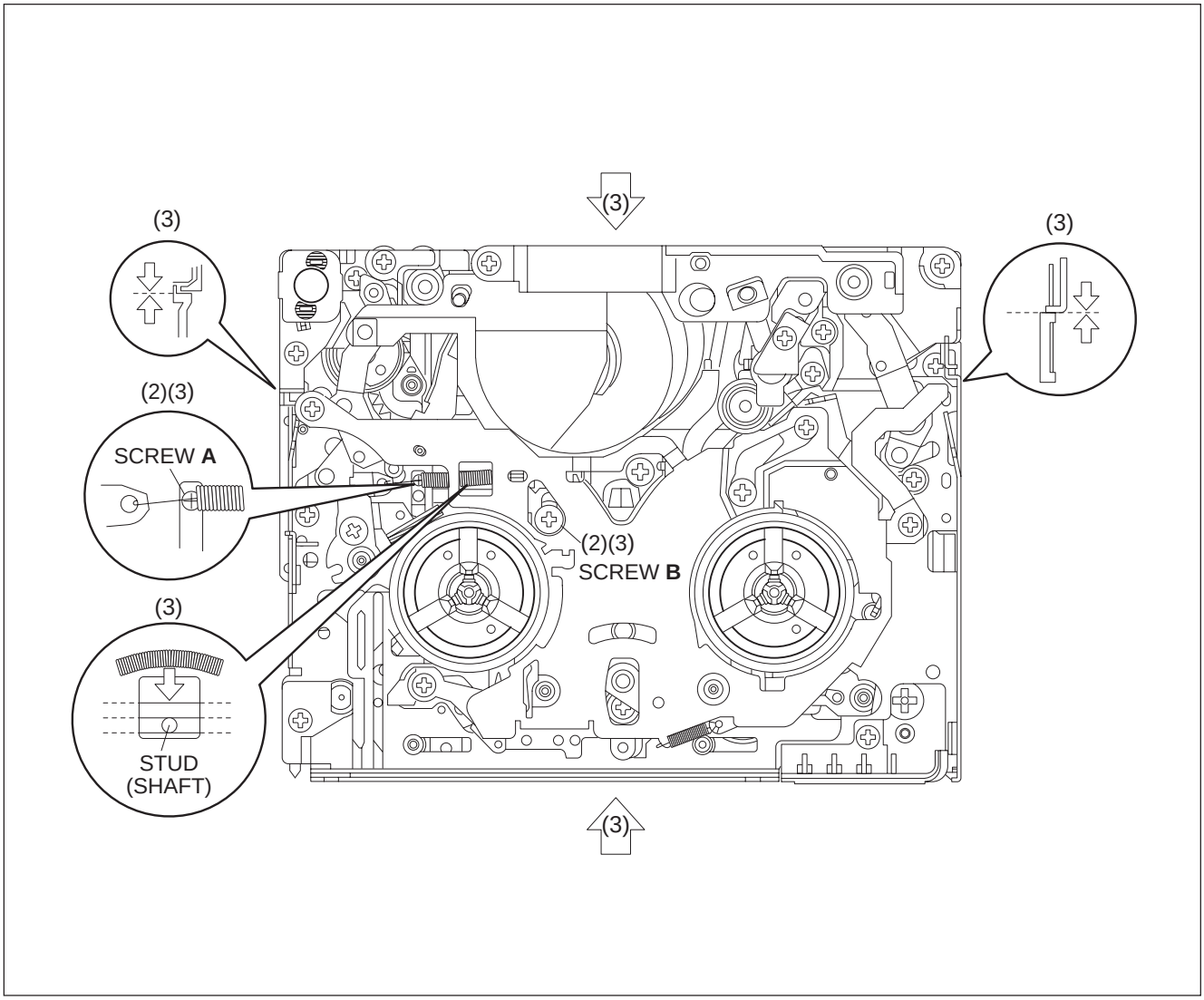



Fig.2-1-26

#### 2.1.7.2 Adjustment of the Tension Arm and Pad Arm Assemblies

Use Fig. 2-1-27 as the reference unless otherwise specified.

(1) Set the PLAY mode.
See Fig. 2-1-8.
(2) Loosen the screw **A**.
(3) With the take-up side at the bottom, align the extreme end of the Tension Arm Assembly with the crossed grooves on the screw **B** that retains the Loading Motor Assembly and then tighten the screw **A**.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).
(4) Check the operation.
Repeat unloading and loading several times and make sure that the Tension Arm Assembly is located within the normal range.

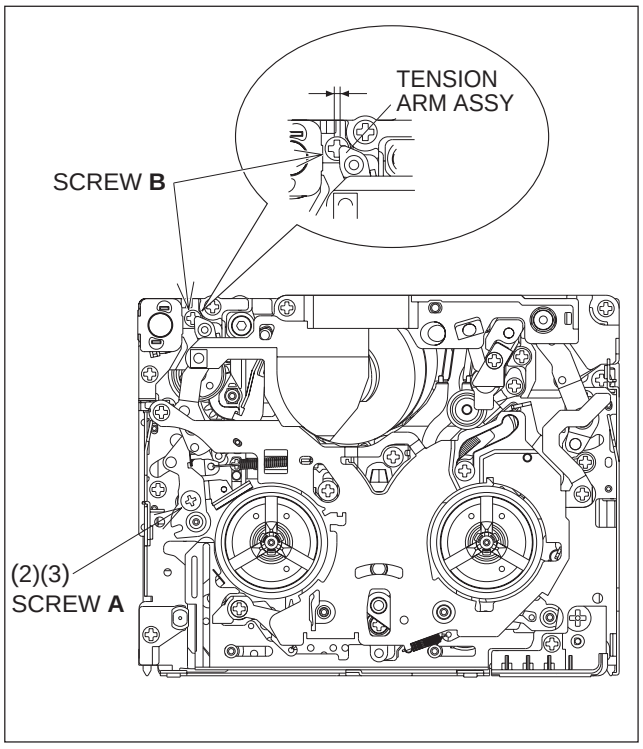



Fig.2-1-27

#### 2.1.7.3 Adjustment of the Slide Lever 2

Use Fig. 2-1-28 as the reference unless otherwise specified.

(1) Set the C IN mode.
See Fig. 2-1-4.
(2) Loosen the screw **A**.
(3) Set the Main Deck and Slide Deck Assemblies apart so that they do not rattle, then tighten the screw **A** by screwing it fully toward the Drum Assembly.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).
(4) Check the operation.
Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

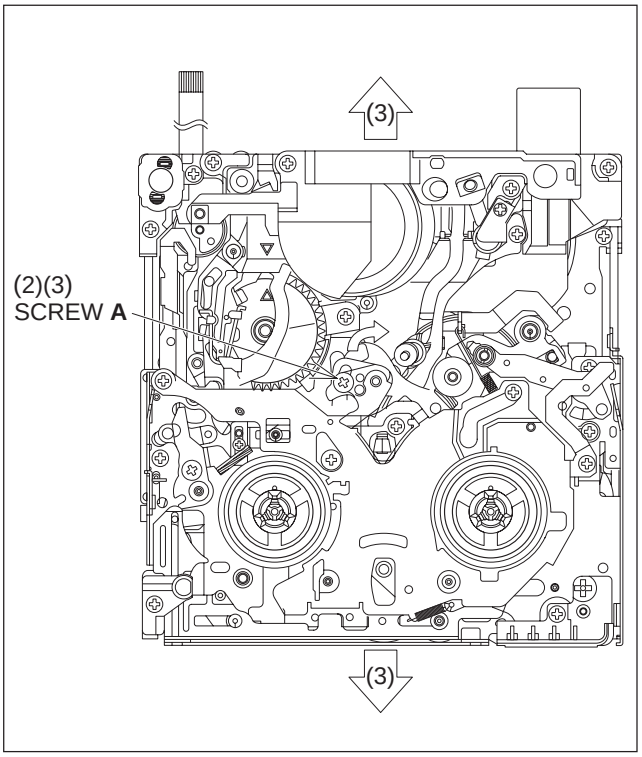



Fig.2-1-28

### 2.1.8 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

Fig.2-1-14

**[ 1 ]** CASSETTE HOUSING ASSY

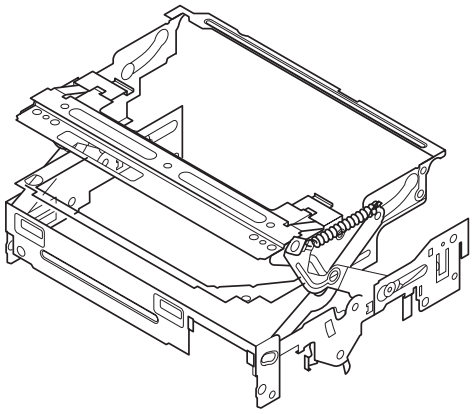


Fig.2-1-15

**[ 2 ]** UPPER BASE ASSY

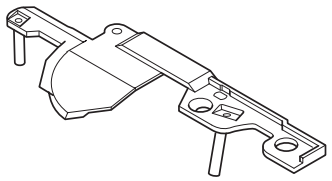


Fig.2-1-15

**[ 3 ]** DRUM ASSY

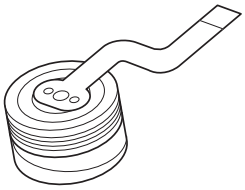
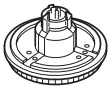
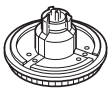


Fig.2-1-16

**[ 4 ]** REEL DISK ASSY(SUP)



**[ 5 ]** REEL DISK ASSY(TU)



**[ 6 ]** REEL COVER ASSY

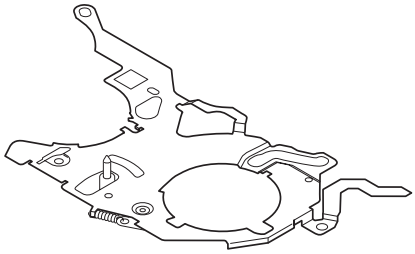
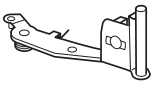


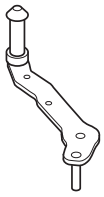
Fig.2-1-17

**[ 7 ]** TENSION ARM ASSY

**[ 8 ]** SLANT POLE ARM ASSY



**[ 9 ]** TU ARM ASSY



**[10]** SWING ARM ASSY

Fig.2-1-18

**[11]** SLIDE DECK ASSY

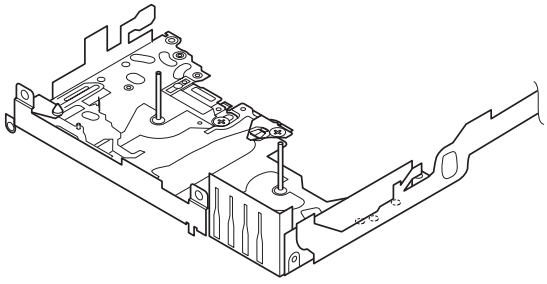


Fig.2-1-19

**[12]** PAD ARM ASSY

**[13]**

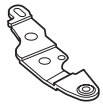
—

**[14]** TU BRAKE ASSY

Fig.2-1-29

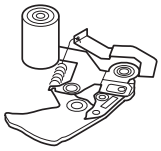
Fig.2-1-20

**[15]** TENSION CTL LEVER ASSY

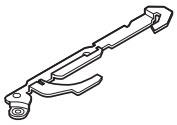


**[16]** CENTER GEAR

**[17]** PINCH ROLLER ARM F. ASSY



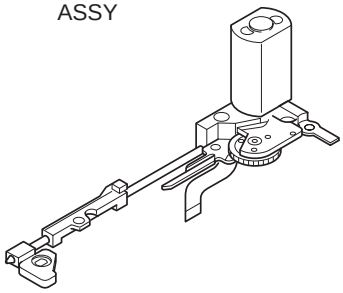
**[18]** TENSION CTL PLATE ASSY



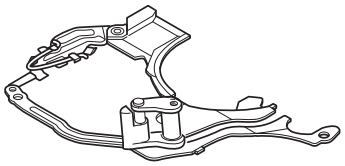
**[19]** BRAKE CTL LEVER ASSY

Fig.2-1-21

**[20]** MOTOR BRACKET ASSY



**[21]** GUIDE RAIL ASSY



**[22]** SLIDE LEVER 2 ASSY

**[23]** LOADING PLATE ASSY

**[24]** MODE GEAR

**[25]** EJECT LEVER

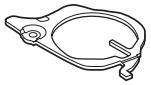
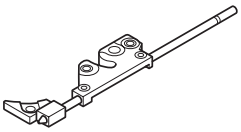
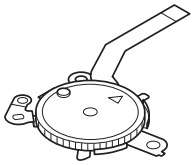


Fig.2-1-22

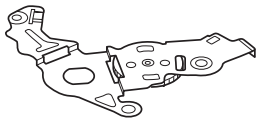
**[26]** BASE R ASSY



**[27]** ROTARY ENCODER



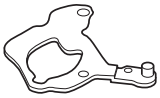
**[28]** GEAR COVER ASSY



**[29]** MAIN CAM ASSY

Fig.2-1-23

**[30]** SLIDE ARM ASSY



**[31]** CONNECT GEAR 2

**[32]** SUB CAM ASSY

**[33]** CONTROL ARM ASSY

**[34]** REEL GEAR 1

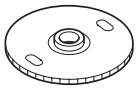
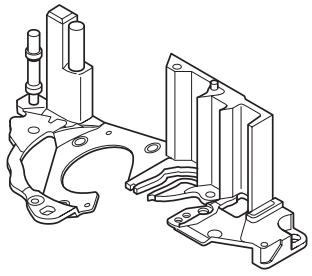
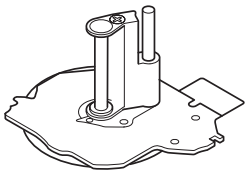


Fig.2-1-24

**[35]** DRUM BASE ASSY



**[36]** CAPSTAN MOTOR



**[37]** MAIN DECK ASSY

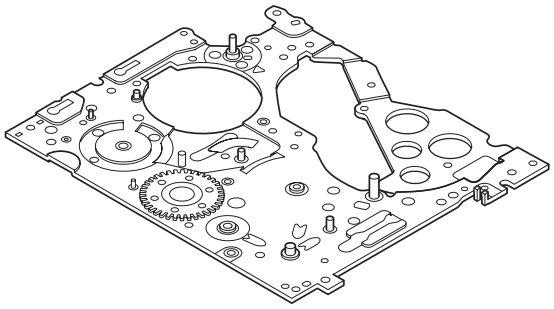


Fig.2-1-30

### 2.1.9 SERVICE NOTE

Use the following chart to manage screws.

| Symbol No. | [1] | | | [2] | [3] | | | [6] | | | [10] | [11] | | | [20] | | | [21] | [22] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Removing order of screw | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Place to stick screw | | | | | | | | | | | | | | | | | | | | |
| Reference drawing (Fig. No.2-1-**) | 14 | | | | 15 | | | | 16 | | 17 | | 18 | | | 21 | | | 22 | |
| Screw tightening torque | Ⅰ | | | | Ⅱ | | | | | | | | | | | | | | | Ⅲ |

| Symbol No. | [27] | | | [28] | | | [32] | [35] | | | [36] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Removing order of screw | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| Place to stick screw | | | | | | | | | | | |
| Reference drawing (Fig. No.2-1-**) | 22 | | | | | 23 | 24 | | | | |
| Screw tightening torque | Ⅱ | | | | | | Ⅳ | | | Ⅴ | |

<NOTE>

·Pay careful attention to tightening torque for each screw.

Ⅰ : 0.069N·m(0.7kgf·cm)　　Ⅱ : 0.055N·m(0.56kgf·cm)　　Ⅲ : 0.0198N·m(0.2kgf·cm)

Ⅳ : 0.078N·m(0.8kgf·cm)　　Ⅴ : 0.039N·m(0.4kgf·cm)

Fig.2-1-31

### 2.1.10 REMARKS

#### 2.1.10.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

**NOTE:**
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

#### 2.1.10.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.1 DVC MECHANISM ASSEMBLY. Fig.2-1-32 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

| Classification | Part No. | Symbol in drawing |
|---|---|---|
| Grease | KYODO-SH-JB | AA |
| Oil | YTU94027 | BB |
| Grease (HANARL) | RX-410R | CC |

specifies oil and grease to be used

Fig.2-1-32

## 2.2 VHS-C MECHANISM

### 2.2.1 Precautions

(1) When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.216 N•m (2.2 kgf•cm). Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.
(2) Be sure to disconnect the set from the power supply before fastening and soldering parts.
(3) When disconnecting/connecting wires, be careful not to get them and their connectors damaged.
(4) When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

**Example**

| STEP/LOC. No. | PART NAME | | FIG. | REMOVAL POINT | INSTALLATION ADJUSTMENT CONDITION NOTE |
|---|---|---|---|---|---|
| [1] | ROLLER BASE ASSEMBLY | T | M1 | (S1) | – |
| [2] | TENSION ARM ASSEMBLY | T | M1 | (P1), (W1a) | – |
| [3] | REEL DISC (SUP) | T | M1 | (W1a), (W1b) | – |
| ↑ *1 | ↑ *2 | ↑ *3 | ↑ *4 | ↑ *5 | ↑ *6 |

### 2.2.2 How to read the disassembly and assembly

*1 Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order. These numbers are also used as the identification (location) No. of parts Figures.
*2 Part to Name be removed or installed.
*3 Location of part.

T = The Upper side
B = The Lower side

*4 Fig. No. showing Procedure or Part Location.
M = Mechanism
*5 Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.

P = Spring
W = Washer
S = Screw
* = Unhook, unlock, release, unplug or unsolder.

**Example**

- Remove (W1)=Washer W1.
- Remove the solder at (SD1)=Point SD1.
- Disconnect A = Connector A.

*6 Adjustment information for installation.
(+) = Refer to Exploded Views for Lubrication information.

### 2.2.3 DISASSEMBLY/ASSEMBLY PROCEDRURE TABLE

This procedure starts with the condition that the cabinet parts and deck parts. Also, all the following procedures for adjustment and parts replacement should be performed in STOP mode. When reassembling, perform the step(s) in the reverse order.

| STEP/LOC. No. | PART NAME | | FIG. | REMOVAL POINT | INSTALLATION ADJUSTMENT CONDITION NOTE |
|---|---|---|---|---|---|
| [1] | ROLLER BASE ASSY | T | M1 | (1) | – |
| [2] | TENSION ARM ASSY | T | M1 | (P1), (W1a) | – |
| [3] | REEL DISC | T | M1 | (W1a), (W1b) | – |
| [4] | SLANT ARM ASSY | T | M1 | (W1a) | – |
| [5] | CANCEL LEVER ASSY | T | M2 | (W2) | – |
| [6] | EJECT LEVER ASSY | T | M2 | (W2) | – |
| [7] | CASSETTE GUIDE (LEFT) | T | M2 | (2) | – |
| [8] | SUPPLY CLUTCH ASSY | T | M2 | (W2) | – |
| [9] | WHEEL GEAR | T | M2 | (W2) | See, Adjustment procedure for Section 2.2.5 |
| [10] | ROTARY ENCODER | B | M3 | 4(S3a) | The function of this part varies according to the ASSY (VHS/SVHS) which this part is rporated in. (Refer to fig. 2-2-6) |
| [11] | TIMING BELT | B | M3 | – | – |
| [12] | CENTER PULLEY UNIT | T/B | M3 | 2(S3a) | – |
| [13] | CASSETTE GUIDE (R) ASSY | T | M3 | (S3b), (P3) | (Only use SVHS model) |
| [14] | TAKE UP GEAR | T | M3 | (W3a) | – |
| [15] | BRAKE SUB GEAR | T | M3 | (W3a) | – |
| [16] | PINCH ROLLER ARM ASSY | T | M3 | (W3b) | – |
| [17] | TAKE UP GUIDE ARM ASSY | T | M3 | (W3a) | – |
| [18] | LINK ARM ASSY | T | M4 | (W4) | – |
| [19] | LED GUIDE | T | M4 | (S4a) | – |
| [20] | A/C HEAD UNIT | T | M4 | 2(S4b) | – |
| [21] | SLANT POLE BASE ASSY | T | M5 | (S5a) | – |
| [22] | CAPSTAN MOTOR | T | M5 | 3(S5a) | – |
| [23] | MOTOR BASE | T | M5 | 2(S5b), (S5c) | – |
| [24] | BRUSH | B | M6 | (S6a) | – |
| [25] | DRUM FINAL ASSY | T/B | M6 | 2(S6b), 2(S6c) *CATCHER | – |
| [26] | GUIDE RAIL | T | M6 | 7(S6d), 8(S6d) | (Refer to part list.) |
| [27] | POLE BASE (S)ASSY | T | M6 | – | – |
| [28] | POLE BASE (T)ASSY | T | M6 | – | – |
| [29] | COVER PLATE | T | M7 | – | – |
| [30] | DRIVE LEVER ASSY | T | M7 | – | – |
| [31] | MOTOR BRACKET ASSY | T | M7 | 3(S7) | – |
| [32] | CONTROL CAM | T | M8 | (W8a) | See, Adjustment procedure for Section 2.2.5 |
| [33] | LINK LEVER | T | M8 | _ | See, Adjustment procedure for Section 2.2.5 |
| [34] | MIDDLE GEAR | T | M8 | – | – |
| [35] | LOADING GEAR(T) ASSY | T | M8 | (W8b) | See, Adjustment procedure for Section 2.2.5 |
| [36] | LOADING GEAR(S) ASSY | T | M8 | (W8b) | – |
| [37] | LOADING RING ASSY | T | M8 | 4(S8) | See, Adjustment procedure for Section 2.2.5 |

Fig.2-2-1

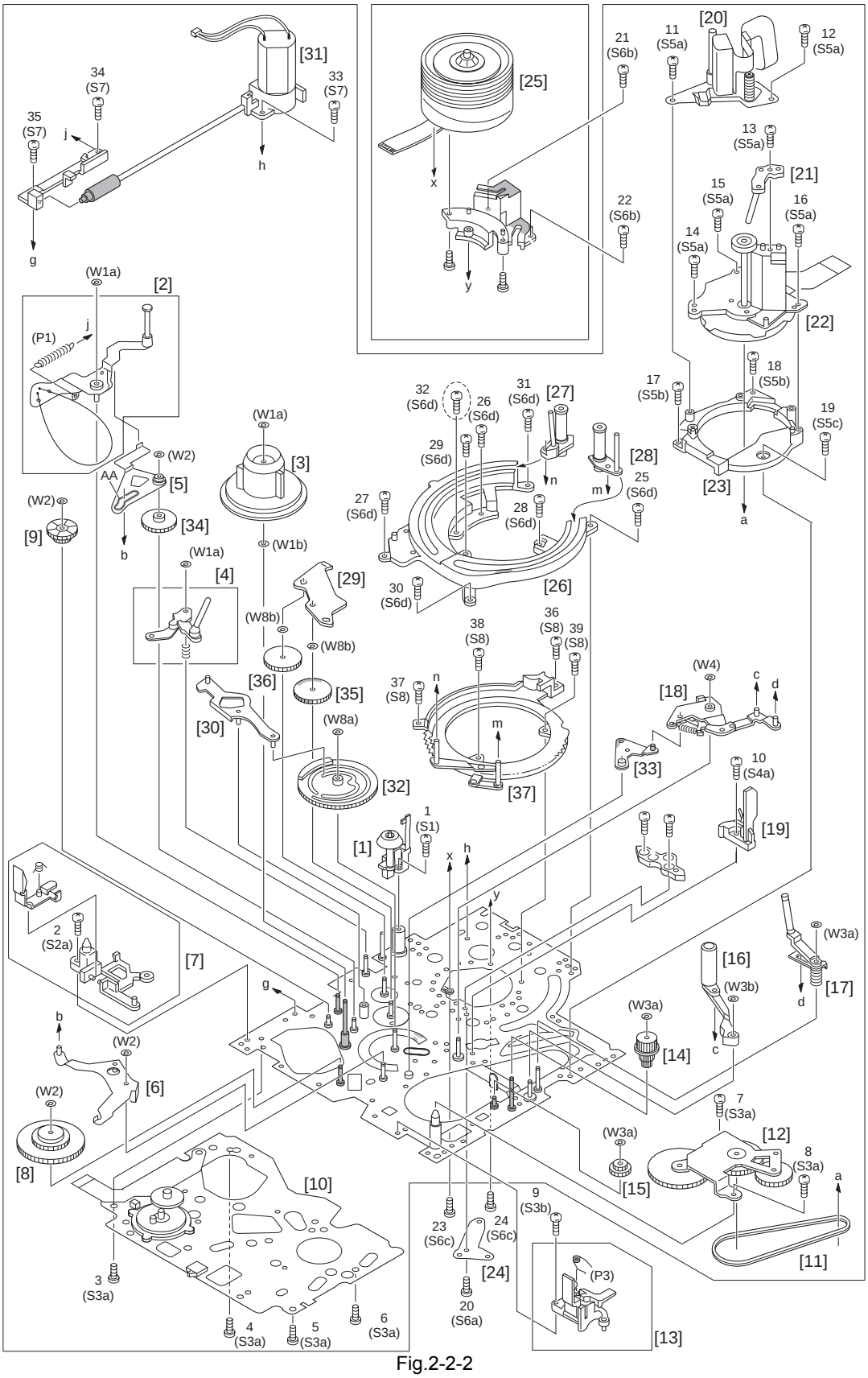

[31]
34 (S7)
33 (S7)
35 (S7)
j
h
g
[25]
x
y
21 (S6b)
22 (S6b)
[20]
11 (S5a)
12 (S5a)
13 (S5a)
[21]
15 (S5a)
16 (S5a)
14 (S5a)
[22]
(W1a)
[2]
(P1)
j
AA
(W2)
[5]
b
[34]
[9]
(W2)
(W1a)
[3]
(W1b)
[4]
[29]
(W8b)
(W8b)
[36]
[35]
[30]
(W8a)
[32]
32 (S6d)
26 (S6d)
31 (S6d)
[27]
29 (S6d)
n
[28]
m
25 (S6d)
27 (S6d)
28 (S6d)
[26]
30 (S6d)
17 (S5b)
18 (S5b)
19 (S5c)
[23]
a
38 (S8)
36 (S8)
39 (S8)
37 (S8)
n
m
[37]
(W4)
c
d
[18]
[33]
10 (S4a)
[19]
[1]
1 (S1)
x
h
y
2 (S2a)
[7]
g
b
(W2)
[6]
(W2)
[8]
[10]
3 (S3a)
4 (S3a)
5 (S3a)
6 (S3a)
23 (S6c)
24 (S6c)
9 (S3b)
[24]
20 (S6a)
(P3)
[13]
(W3a)
[16]
(W3b)
c
(W3a)
[14]
(W3a)
[17]
d
7 (S3a)
(W3a)
[15]
[12]
8 (S3a)
a
[11]

Fig.2-2-2

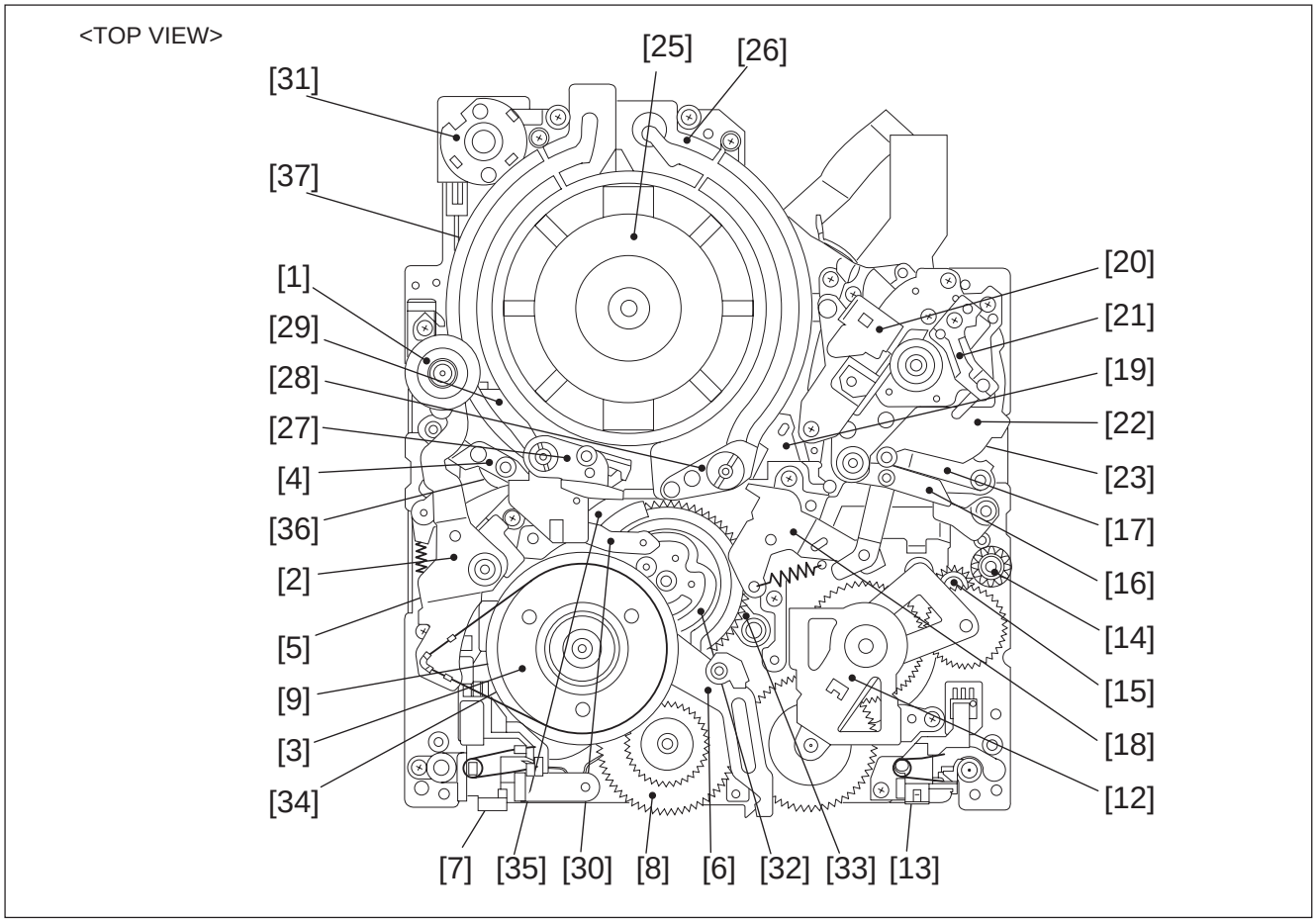



Fig.2-2-3

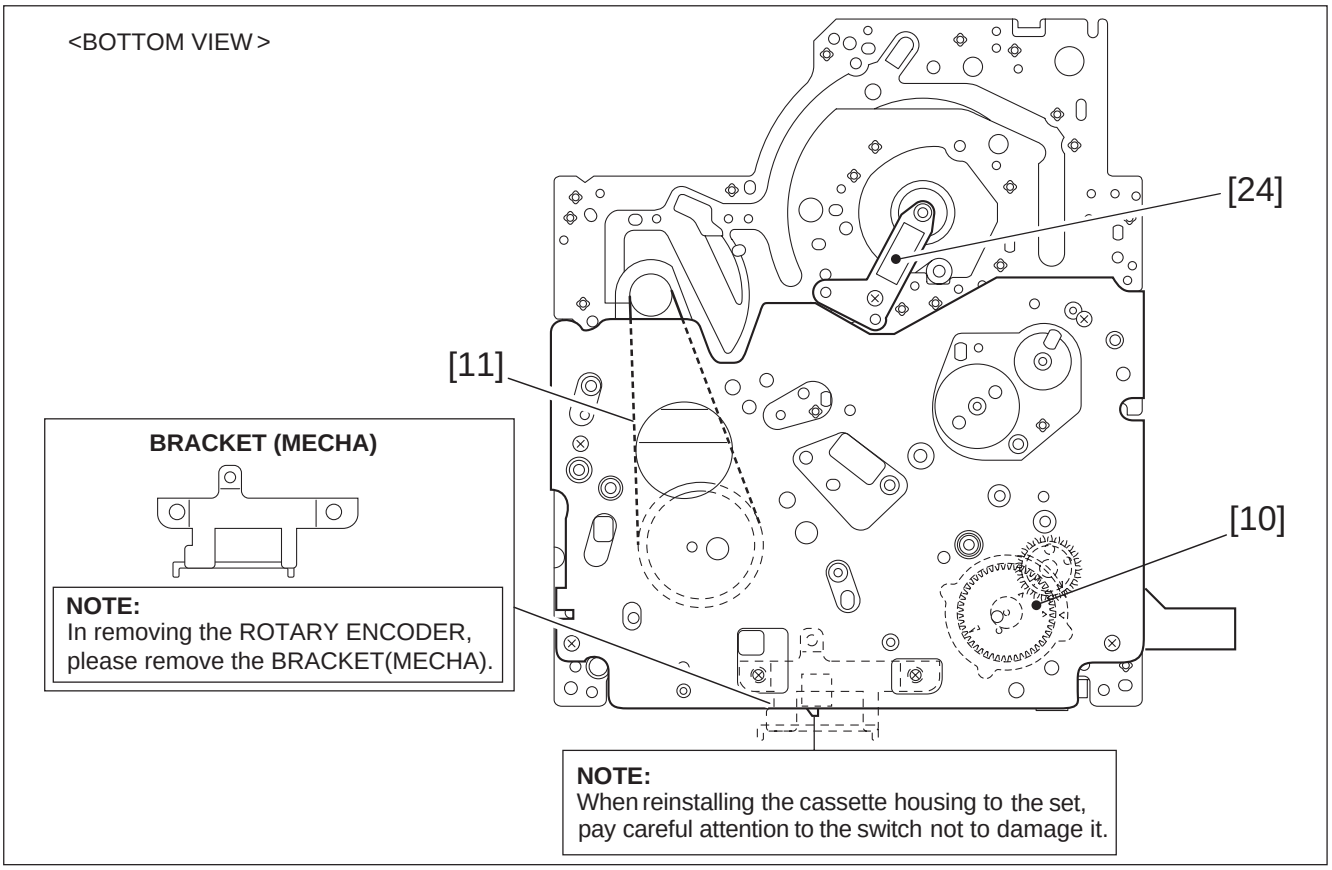

<BOTTOM VIEW>
[24]
[11]
[10]
BRACKET (MECHA)
NOTE:
In removing the ROTARY ENCODER, please remove the BRACKET(MECHA).
NOTE:
When reinstalling the cassette housing to the set, pay careful attention to the switch not to damage it.

Fig.2-2-4

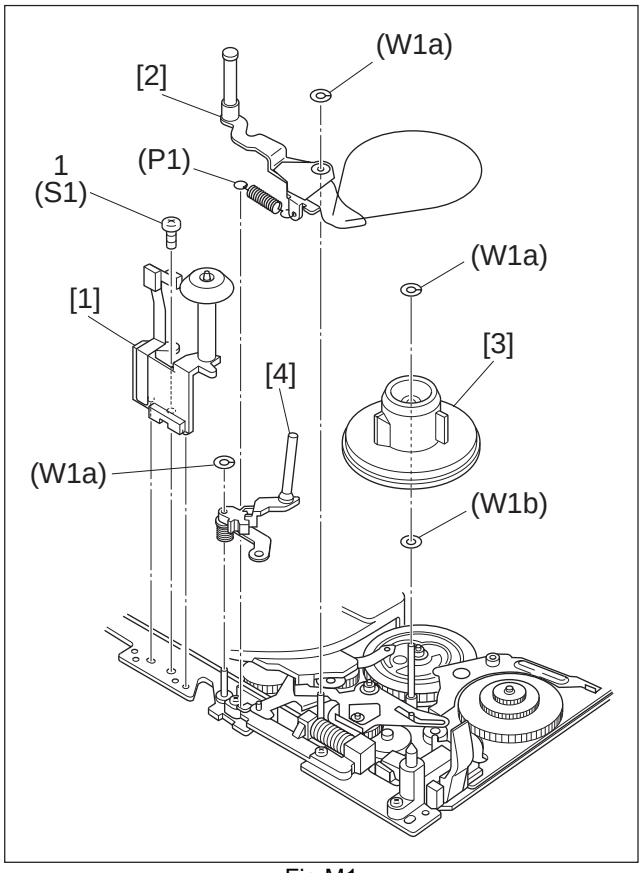



Fig.M1

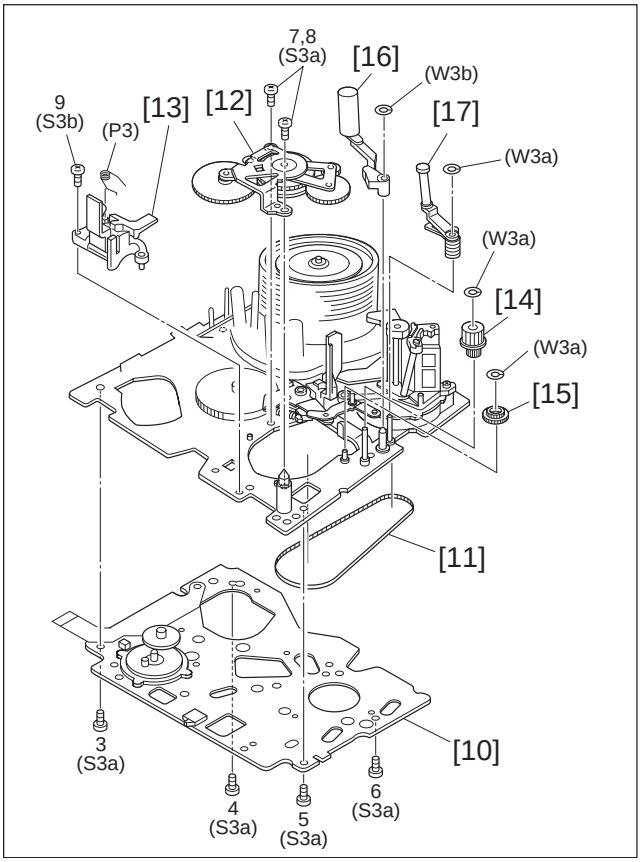



Fig.M3

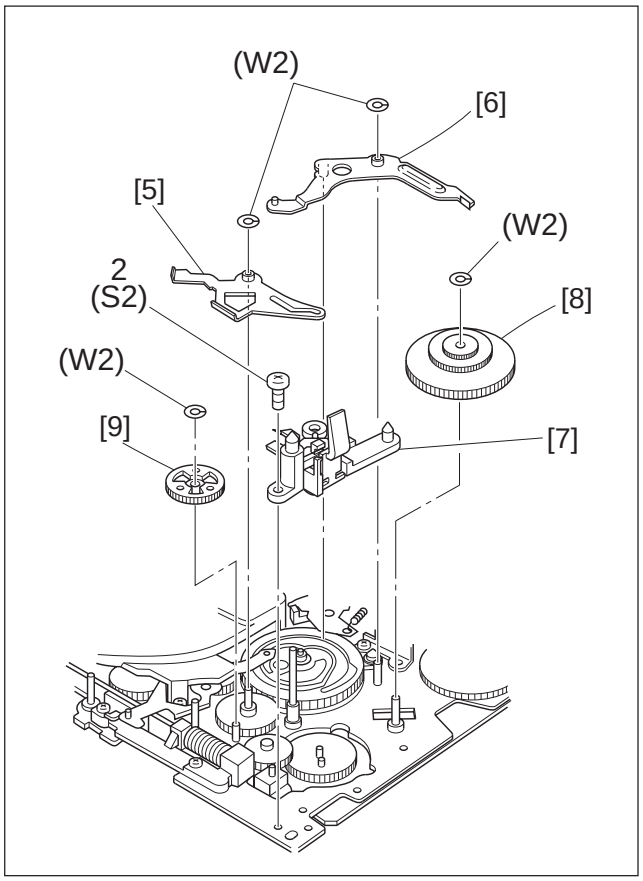



Fig.M2

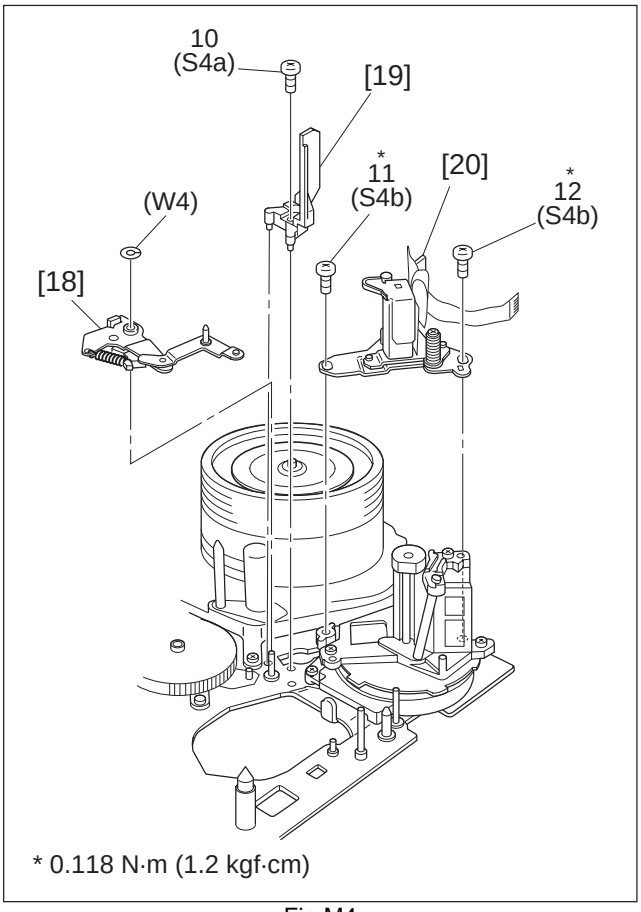



Fig.M4

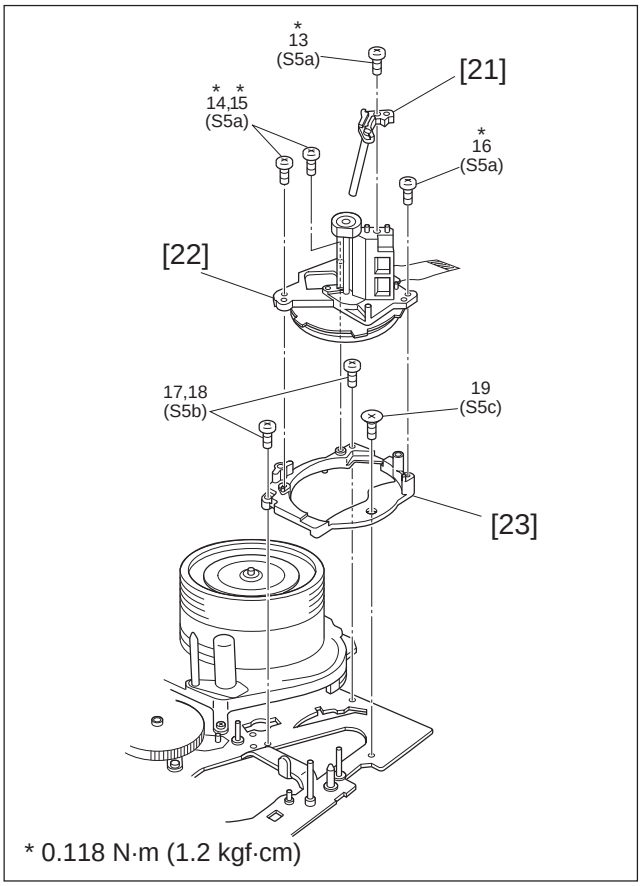



Fig.M5

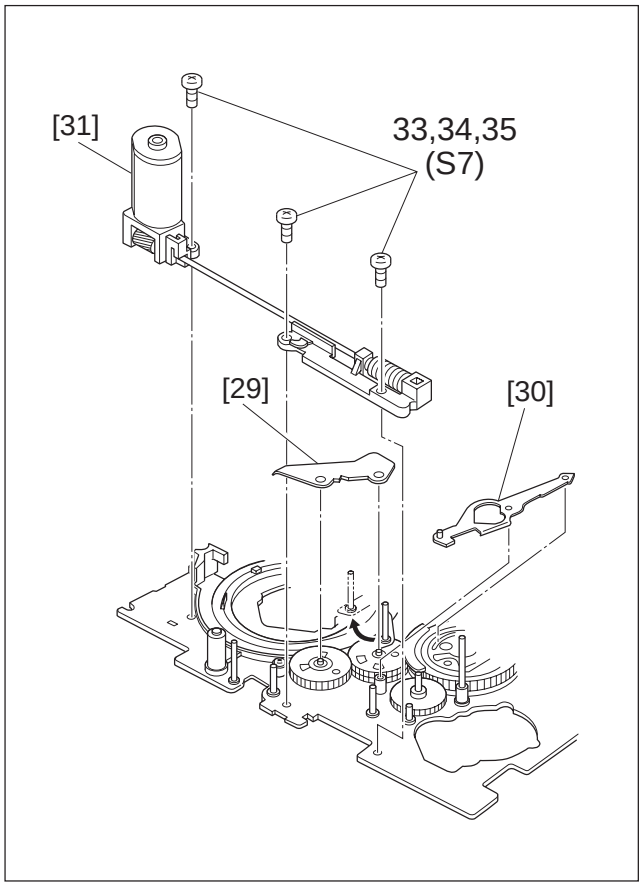



Fig.M7

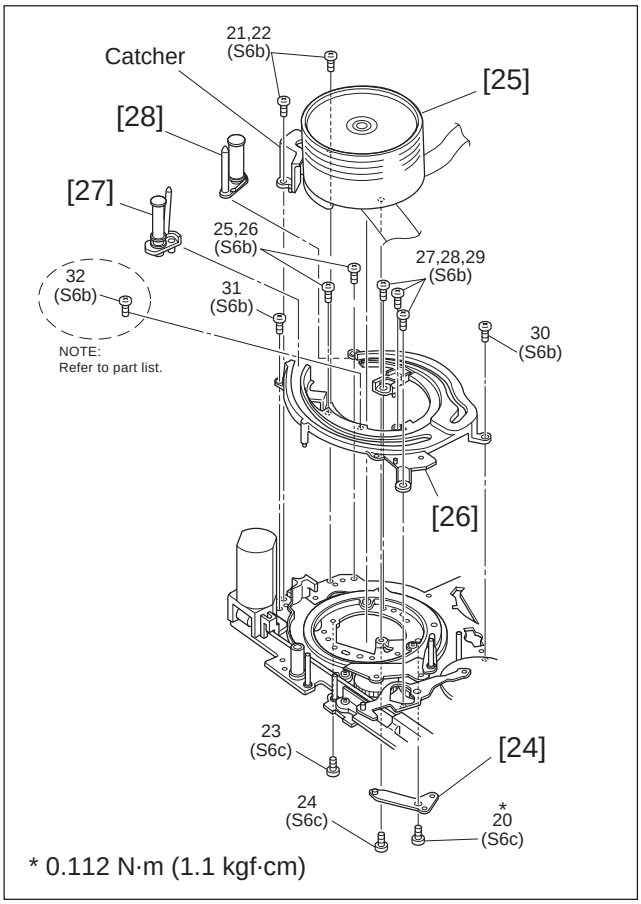



Fig.M6

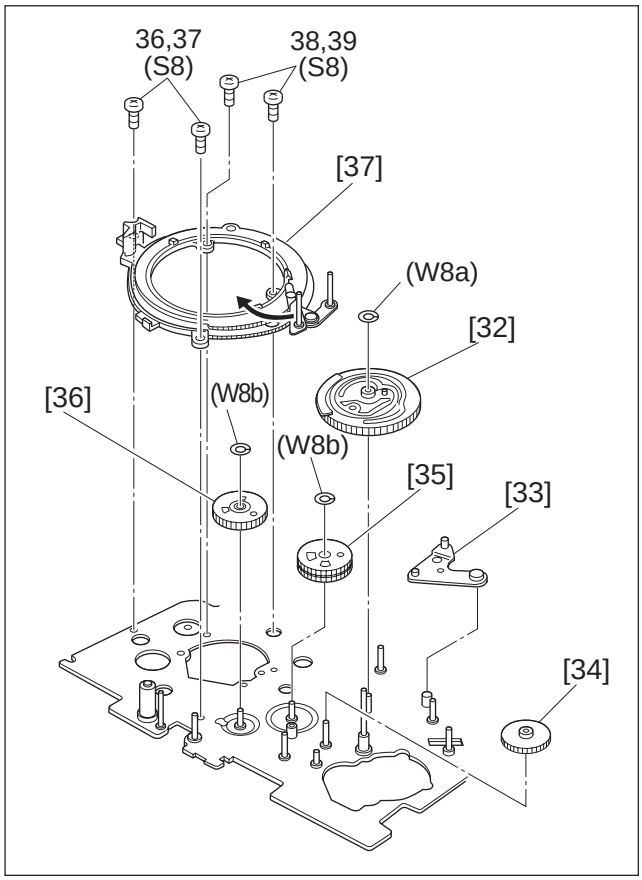



Fig.M8

### 2.2.4 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE

**NOTE:**

Pay careful attention to the installing order and phase of mechanism parts of the loading system.

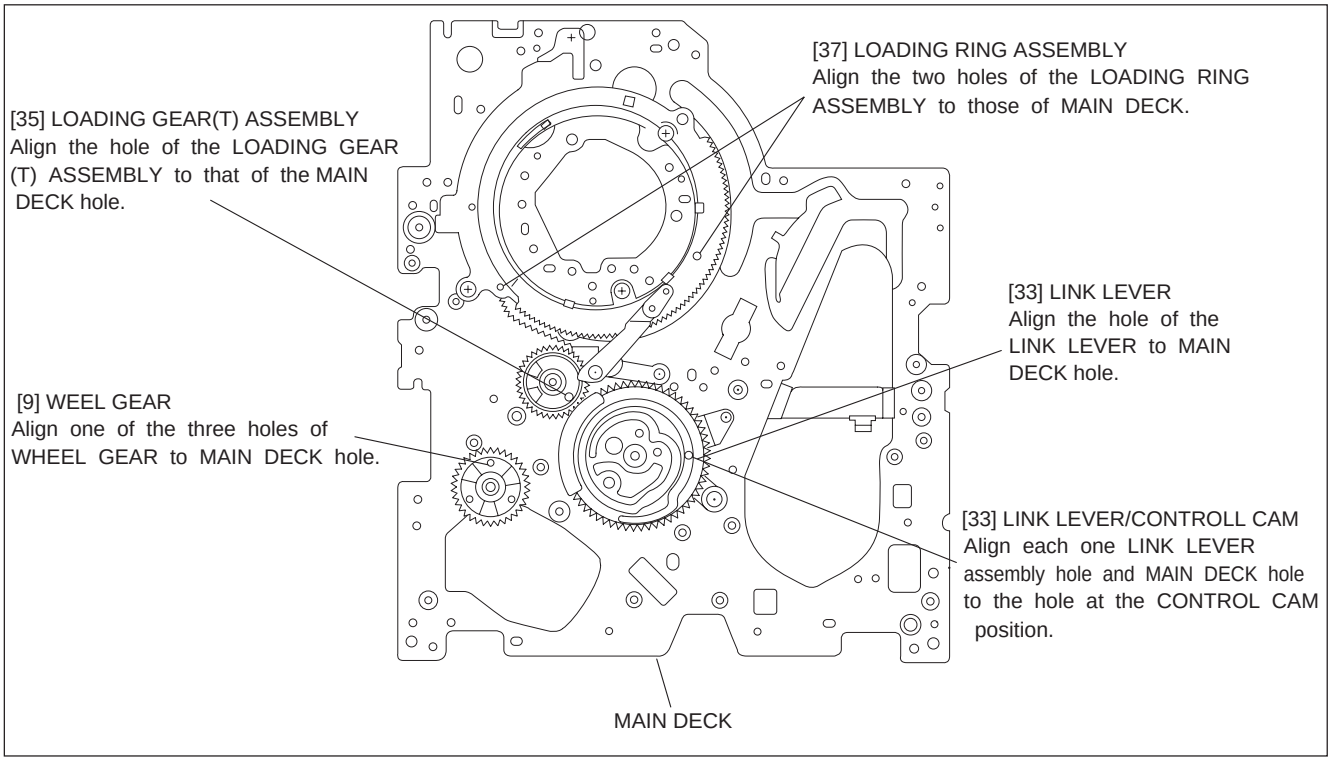

[37] LOADING RING ASSEMBLY
Align the two holes of the LOADING RING ASSEMBLY to those of MAIN DECK.
[35] LOADING GEAR(T) ASSEMBLY
Align the hole of the LOADING GEAR (T) ASSEMBLY to that of the MAIN DECK hole.
[33] LINK LEVER
Align the hole of the LINK LEVER to MAIN DECK hole.
[9] WEEL GEAR
Align one of the three holes of WHEEL GEAR to MAIN DECK hole.
[33] LINK LEVER/CONTROLL CAM
Align each one LINK LEVER assembly hole and MAIN DECK hole to the hole at the CONTROL CAM position.
MAIN DECK

Fig.2-2-5 Top of main deck

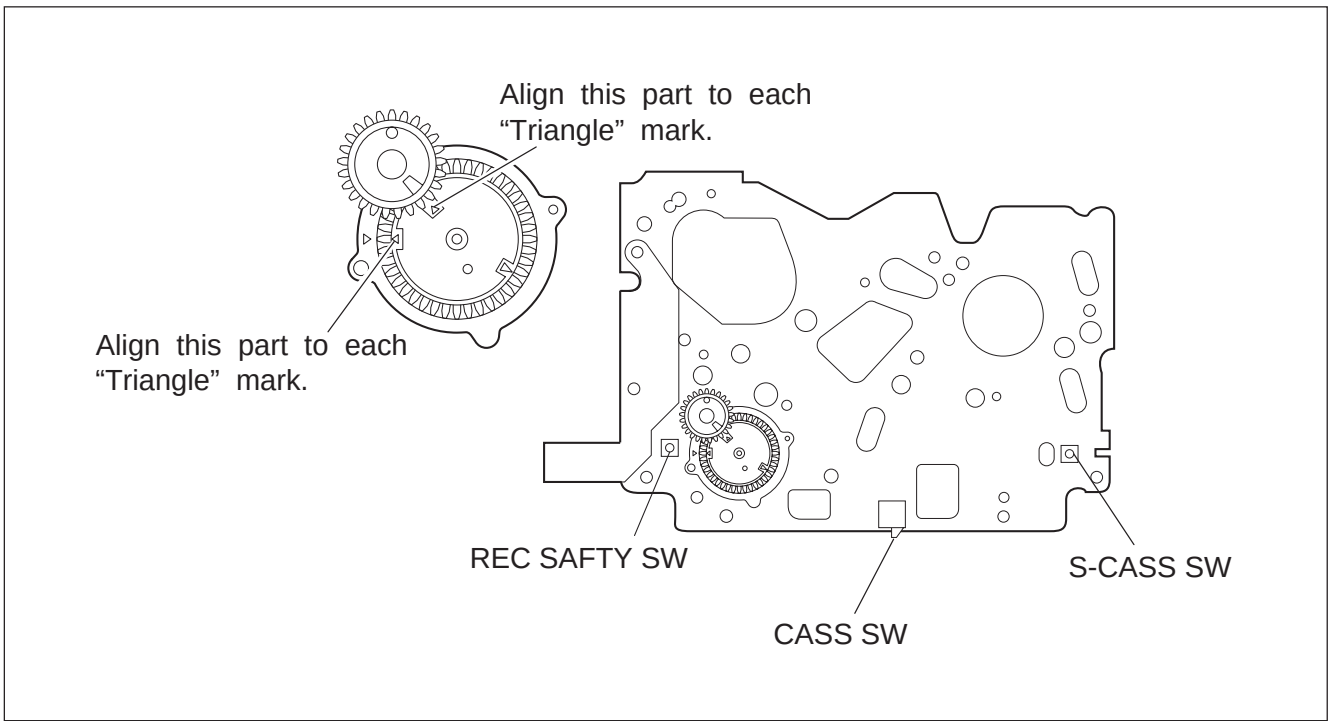



Fig.2-2-6 Rotary encoder

### 2.2.5 SERVISE NOTE

Use the following chart to manage screws.

| Symbol No. | [1] | [7] | [10] | | | | [12] | | [13] | [19] | [20] | | [21] | [22] | | | [23] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Removing order of screw | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Place to stick screw | | | | | | | | | | | | | | | | | | | |
| Reference drawing (Fig. No.) | M1 | M2 | M3 | | | | | | | M4 | | | M5 | | | | | | |
| Screw tightening torque | I | | | | | | | | | | II | | | | | | I | | |

| Symbol No. | [24] | [25] | | | [26] | | | | | | | [31] | | | [37] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Removing order of screw | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| Place to stick screw | | | | | | | | | | | | | | | | | | | | |
| Reference drawing (Fig. No.) | M6 | | | | | | | | | | | | | M7 | | | M8 | | | |
| Screw tightening torque | III | I | | | | | | | | | | | | | | | | | | |

<NOTE>

・Pay careful attention to tightening torque for each screw.
Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.

I : 0.216N・m(2.2kgf・cm)　　II : 0.118N・m(1.2kgf・cm)　　III : 0.112N・m(1.1kgf・cm)

Fig.2-2-7

### 2.2.6 REMARKS

#### 2.2.6.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

**NOTE:**
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

#### 2.2.6.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.2 VHS-C MECHANISM ASSEMBLY. Fig.2-2-8 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

| Classification | Part No. | Symbol in drawing |
|---|---|---|
| Grease | KYODO-SH-JB | AA |
| Oil | YTU94027 | BB |

specifies oil and grease to be used

Fig.2-2-8

## 2.3 VHS MECHANISM

### 2.3.1 Notes

This model's mechanism relates closely to the rotary encoder and system control circuit (the rotary encoder is meshed with the control cam).
The system control circuit detects the mechanism condition using the rotary encoder's phase (internal switch phase). Therefore, the parts such as the rotary encoder, control plate, loading gear and control cam need to be installed correctly in order for the mechanism to operate properly. (For the mechanism phase adjustment, refer to the installation of each part.)

- Before using a soldering iron, be sure to disconnect the power plug from the AC outlet.
- Do not touch any of the adjustment points until a defect position is specified.
- When plugging or unplugging the connector, be sure not to damage the wire.
- Be sure the springs are hooked all the way around and in the correct direction.
- When performing repairs, take care not to damage a catch, etc.

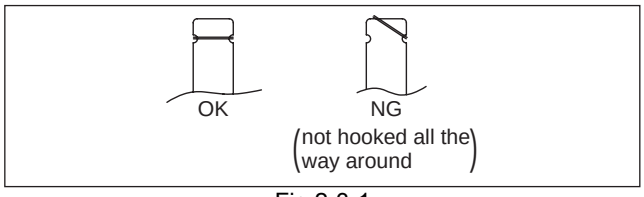



Fig.2-3-1

### 2.3.2 Mechanism operation check

When the mechanism is operated without a cassette loaded, operate the mechanism in the mechanism service mode.

### 2.3.3 Setting the mechanism assembling mode

The mechanism-assembling mode is provided with this mechanism. When disassembling and assembling, it is required to engage this mode.
Set the mode by adopting the following procedures.

(1) Remove the mechanism assembly using the disassembling procedure.
(2) Turn gear (a) of the loading motor manually to set the mechanism assembly to the eject end mode. Make sure that the main deck is connected to the guide hole (a) of the drive lever and the seal (a) of the main deck is connected to the mark "E" of the control plate. This condition is called the mechanism-assembling mode.

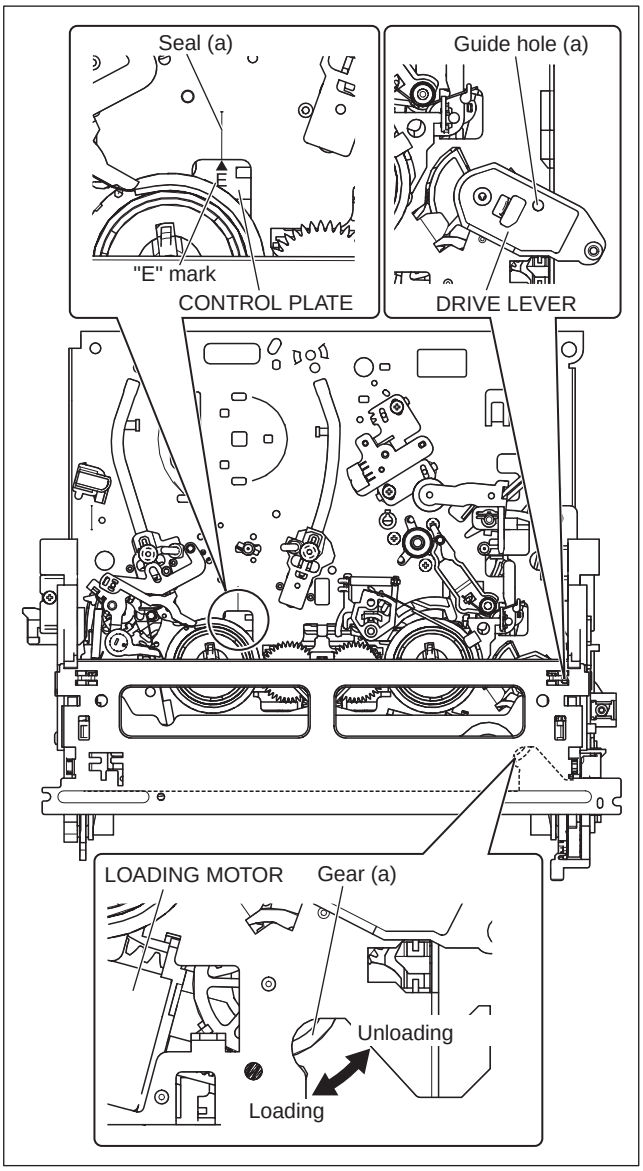



Fig.2-3-2

### 2.3.4 Layout of the main mechanism parts

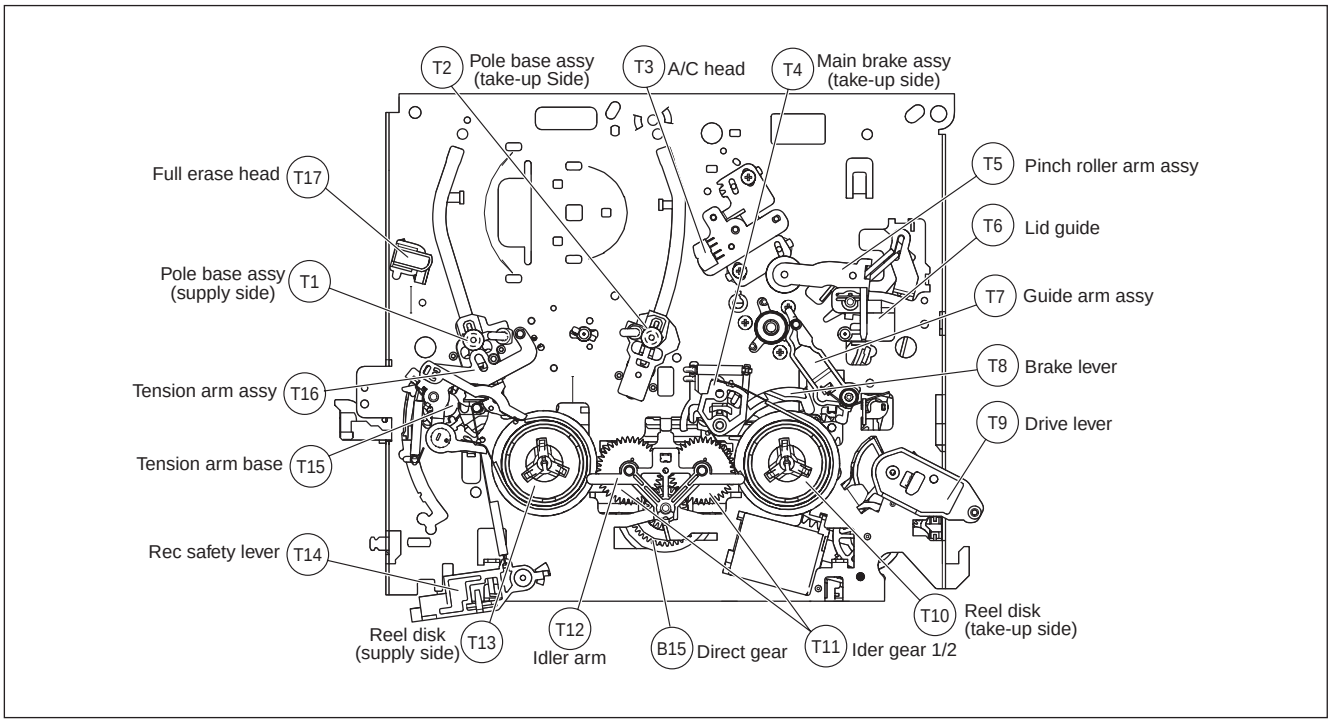

T2 Pole base assy (take-up Side)
T3 A/C head
T4 Main brake assy (take-up side)
Full erase head T17
T5 Pinch roller arm assy
T6 Lid guide
Pole base assy (supply side) T1
T7 Guide arm assy
T8 Brake lever
Tension arm assy T16
T9 Drive lever
Tension arm base T15
Rec safety lever T14
T10 Reel disk (take-up side)
Reel disk (supply side) T13
T12 Idler arm
B15 Direct gear
T11 Ider gear 1/2

Fig.2-3-3

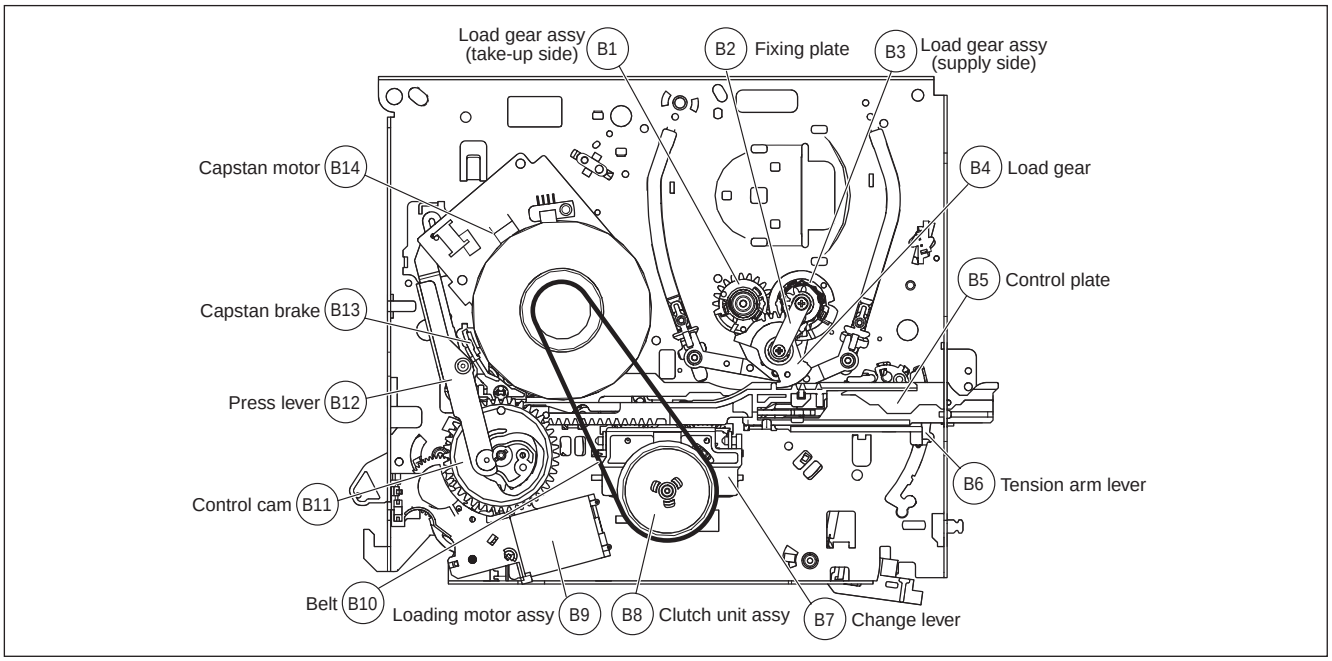



Fig.2-3-4

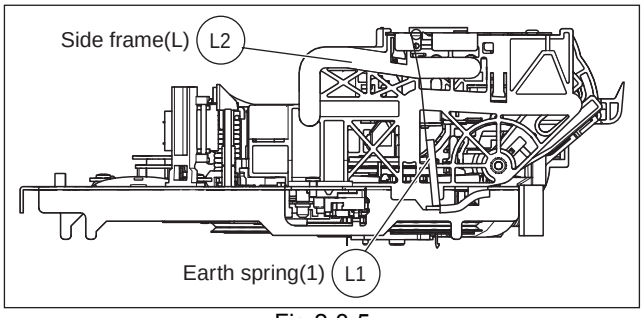



Fig.2-3-5

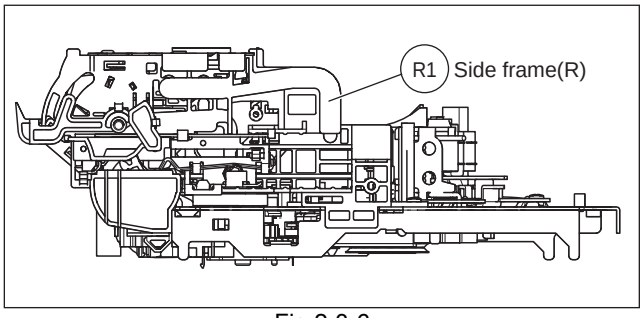



Fig.2-3-6

### 2.3.5 Disassembling procedure table

This table shows the order of parts removal when replacing each part. For replacement, remove the parts in the order of 1 to 13 shown in the table and install the parts in the reverse order.

The symbol number before each part name shows the number in the figure “Layout of the main mechanism parts”. T and B on the right of each part name show the side from which the part should be removed (T: From the front of the mechanism, B: From the rear of the mechanism, T/B: From both sides).

| Symbols and numbers | Removal parts / (Reference items) Replacement parts | Front(T)/Back(B) of mechanism | Number of removal steps | Earth spring (1) | Top frame | Cassette holder | Side frame (L) | Drive arm | Side frame (R) | Lid guide | Idler arm | Idler gear 1/2 | Main brake (T) | Reel disk (T) | Tension arm | Tension arm base | Press lever | Control cam | Capstan brake assy | Loading motor assy | Belt | Fixing plate | Load gear | Loading gear assy (S) | Loading gear assy (T) | Control plate | Clutch unit | Direct gear |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L1 | 2.1 Earth spring (1) | T | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 2.1 Top frame | T | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 2.1 Cassette holder | T | 3 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| L2 | 2.1 Side frame (L) | T | 3 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| - | 2.1 Drive arm | T | 5 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | |
| R1 | 2.1 Side frame (R) | T | 3 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| T3 | 2.2 A/C head | T | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T17 | - FE head | T/B | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T7 | 2.3 Guide arm assy | T | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T6 | 2.3 Lid guide | T | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| T5 | 2.3 Pinch roller arm assy | T | 2 | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| T12 | 2.4 Idler arm | T | 4 | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| T11 | 2.4 Idler gear 1/2 | T | 5 | 1 | 2 | 3 | | | | | 4 | | | | | | | | | | | | | | | | | |
| T4 | 2.5 Main brake assy (T) | T | 6 | 1 | 2 | 3 | | | | | 4 | 5 | | | | | | | | | | | | | | | | |
| T10 | 2.5 Reel disk (T) | T | 7 | 1 | 2 | 3 | | | | | 4 | 5 | 6 | | | | | | | | | | | | | | | |
| T16 | 2.5 Tension arm | T | 6 | 1 | 2 | 3 | | | | | 4 | 5 | | | | | | | | | | | | | | | | |
| T13 | 2.5 Reel disk (S) | T | 7 | 1 | 2 | 3 | | | | | 4 | 5 | | | 6 | | | | | | | | | | | | | |
| T15 | 2.5 Tension arm base | T | 7 | 1 | 2 | 3 | | | | | 4 | 5 | | | 6 | | | | | | | | | | | | | |
| - | - T-up head | T | 8 | 1 | 2 | 3 | | | | | 4 | 5 | | | 6 | 7 | | | | | | | | | | | | |
| - | - T-up lever | T | 8 | 1 | 2 | 3 | | | | | 4 | 5 | | | 6 | 7 | | | | | | | | | | | | |
| T8 | 2.5 Brake lever | T | 8 | 1 | 2 | 3 | | | | | 4 | 5 | 6 | 7 | | | | | | | | | | | | | | |
| T14 | 2.5 Rec safety lever | T | 7 | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | | | | | | | |
| B12 | 2.6 Press lever | B | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| B11 | 2.6 Control cam | B | 2 | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| B13 | 2.6 Capstan brake assy | B | 3 | | | | | | | | | | | | | | 1 | 2 | | | | | | | | | | |
| B9 | 2.6 Loading motor assy | B | 4 | | | | | | | | | | | | | | 1 | 2 | 3 | | | | | | | | | |
| B10 | 2.7 Belt | B | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| B14 | 2.7 Capstan motor | T/B | 2 | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| - | - Wire holder | T/B | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| B2 | 2.7 Fixing plate | B | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| B4 | 2.7 Load gear | B | 2 | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| B3 | 2.7 Loading gear assy(S) | B | 3 | | | | | | | | | | | | | | | | | | | 1 | 2 | | | | | |
| B1 | 2.7 Loading gear assy(T) | B | 4 | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | | | | |
| T1 | - Pole base assy(S) | T/B | 4 | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | | | | |
| T2 | - Pole base assy(T) | T/B | 5 | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | | | |
| - | - Load gear base | B | 5 | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | | | |
| B5 | 2.7 Control plate | B | 6 | | | | | | | | | | | | | | 1 | 2 | | | 3 | 4 | 5 | | | | | |
| T9 | - Drive lever | T/B | 10 | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | 7 | 8 | | 9 | | | | | | | | |
| B8 | 2.8 Clutch unit | B | 2 | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| B15 | 2.8 Direct gear | B | 3 | | | | | | | | | | | | | | | | | | 1 | | | | | | 2 | |
| B7 | - Change lever | T/B | 6 | | | | | | | | 1 | 2 | | | | | | | | | 3 | | | | | | 4 | 5 |
| B6 | - Tension arm lever | T/B | 14 | 1 | 2 | 3 | | | | | 4 | 5 | | | 6 | 7 | 8 | 9 | | | 10 | 11 | 12 | | | 13 | | |

### 2.3.6 REPLACEMENT OF THE MAIN MECHANISM PARTS

#### 2.3.6.1 Cassette holder

##### 2.3.6.1.1 Removal

(1) Remove the screws (a) and (b).
(2) Hold up the top frame, cassette holder assembly, drive arm assembly and side frames (L/R) all together and remove them by releasing the hooks (a) and (b).

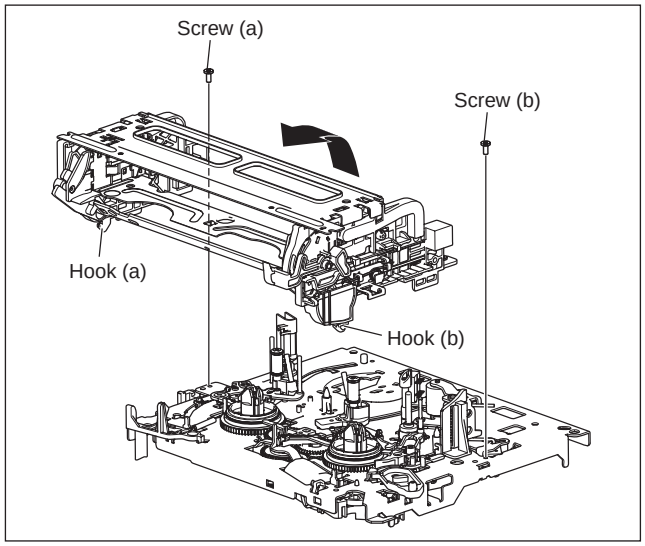



Fig.2-3-7

##### 2.3.6.1.2 Installation (phase adjustment)

(1) Turn gear (a) of the loading motor assembly so that the main deck connects to the guide hole (a) of the drive lever.
(2) Hook the main deck to hooks (a) and (b).
(3) Place the projection of the drive lever to section (a) of the side frame (R) and install the cassette holder to the main deck. Make sure that the bosses of the side frame (L/R) connect with the holes (a) and (b) of the main deck.
(4) Secure screws (a) and (b).

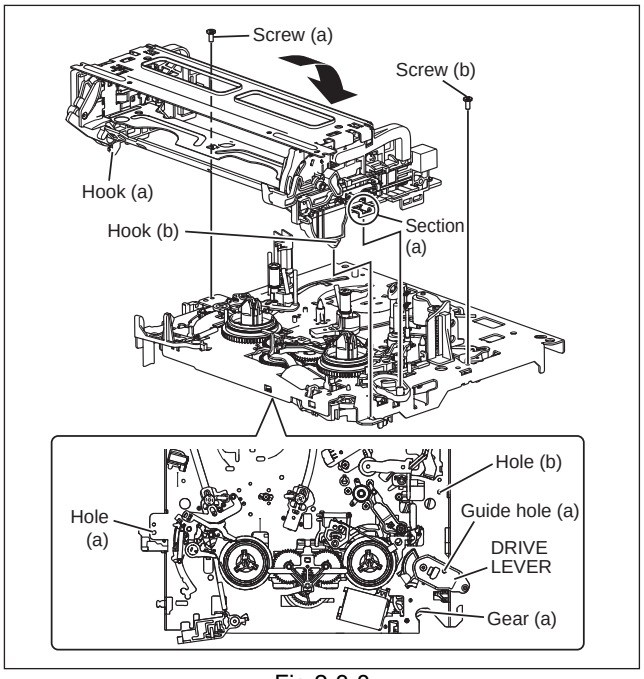



Fig.2-3-8

##### 2.3.6.1.3 Disassembling

(1) Release hook (a) to remove the earth spring (1) from the top frame.
(2) Release the catches (a) and (b) and pull the top frame in the direction shown by the arrow (a) to remove it.
(3) Pull out the side frame (R).
(4) Pull out the cassette holder assembly and drive arm assembly from the side frame (L).

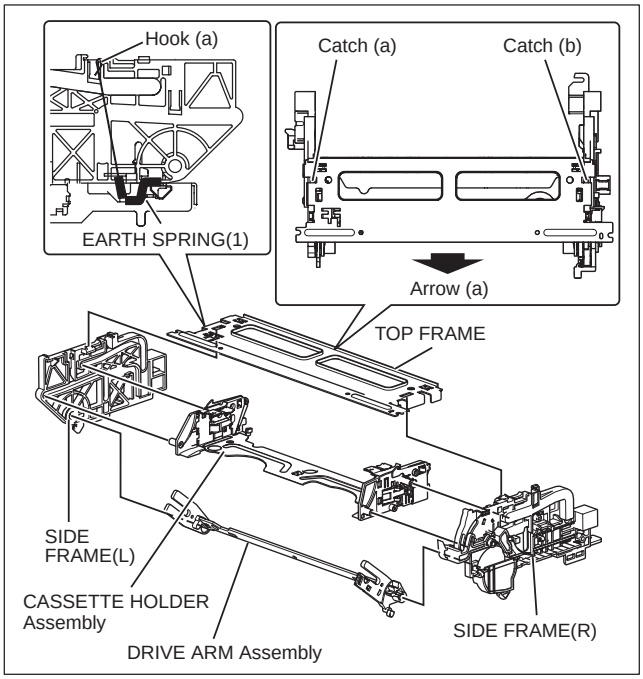



Fig.2-3-9

##### 2.3.6.1.4 Assembling (installation and phase adjustment)

(1) Turn gear (a) of the loading motor assembly so that the main deck connects to the guide hole (a) of the drive lever.
(2) Place the projection of the drive lever on section (a) of the side frame (R) and install the side frame (R) to the main deck.
(3) Secure screw (b).
(4) Place section (b) of the drive arm on the gear of the side frame (R). Make sure that the pin of the door opener connects with section (c) of the drive arm.
(5) Place the drive arm on section (d) of the side frame (L) and install the side frame (L) on the main deck. Be sure to connect the earth spring (1) to the side frame (L).
(6) Secure screw (a).
(7) Turn gear (a) of the loading motor assembly until the drive arm is vertical.
(8) Place the slit of the side frame (L/R) at the foot of the cassette holder assembly and install the cassette holder.
(9) Place the top frame on the position guide (a) of the side frame (L/R) and push it in the direction shown by the arrow (a) for installation.
(10) Hook the earth spring (1) to the hook (a) of the top frame.

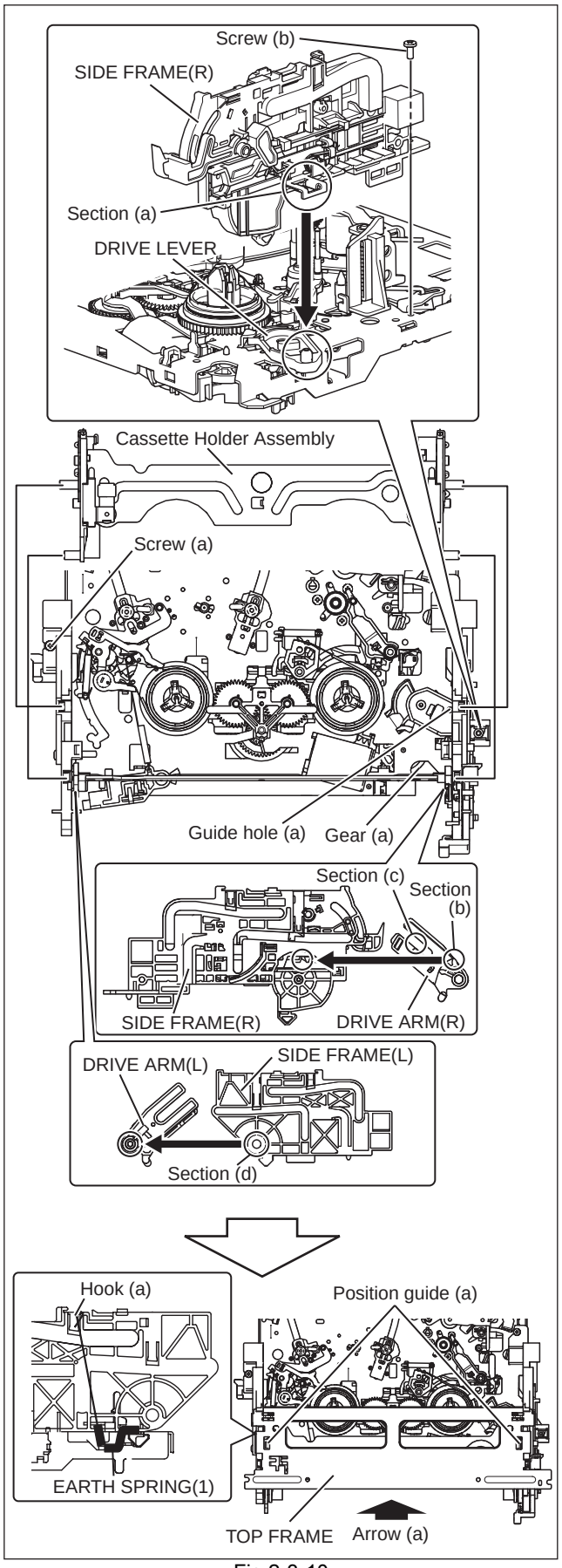



Fig.2-3-10

### 2.3.6.2 A/C head

#### 2.3.6.2.1 Removal

(1) Remove screws (a) and (b).
(2) Remove the A/C head together with the head base.
(3) Remove the screws (c), (d) and (e) to remove the spring (a) and the A/C head from the Head base.

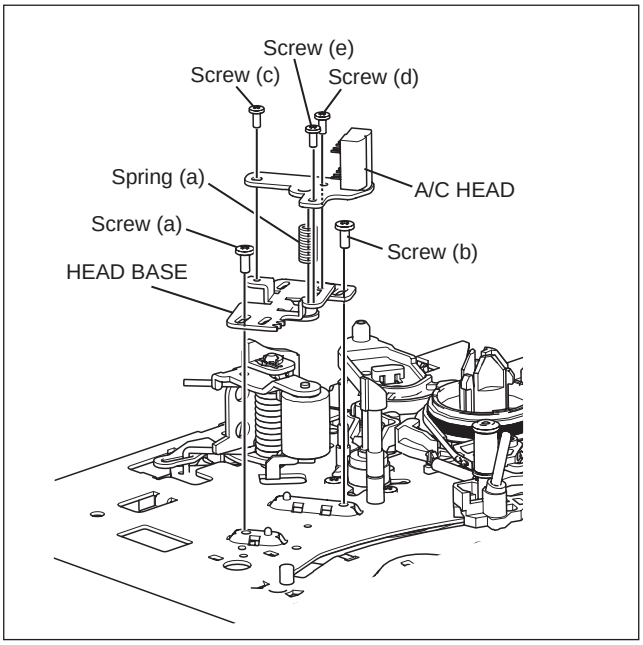



Fig.2-3-11

#### 2.3.6.2.2 Installation (initial setting)

To install the A/C head to the head base, secure the screws in the order of (c), (d) and (e). To make the adjustment easy, temporarily elevate the A/C head.

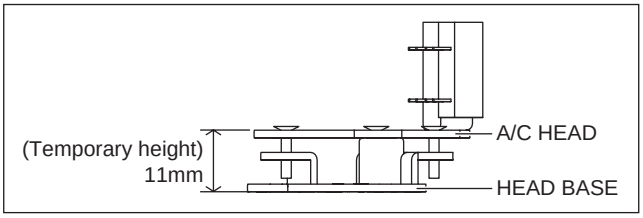



Fig.2-3-12

### 2.3.6.3 Guide arm, pinch roller arm

#### 2.3.6.3.1 Removal

(1) Remove the spring (a) from the hook (a) and detach the guide arm assembly.
(2) Release the catch (a) to remove the lid guide.
(3) Remove the spring (b) from the hook (b) and detach the pinch roller arm assembly.

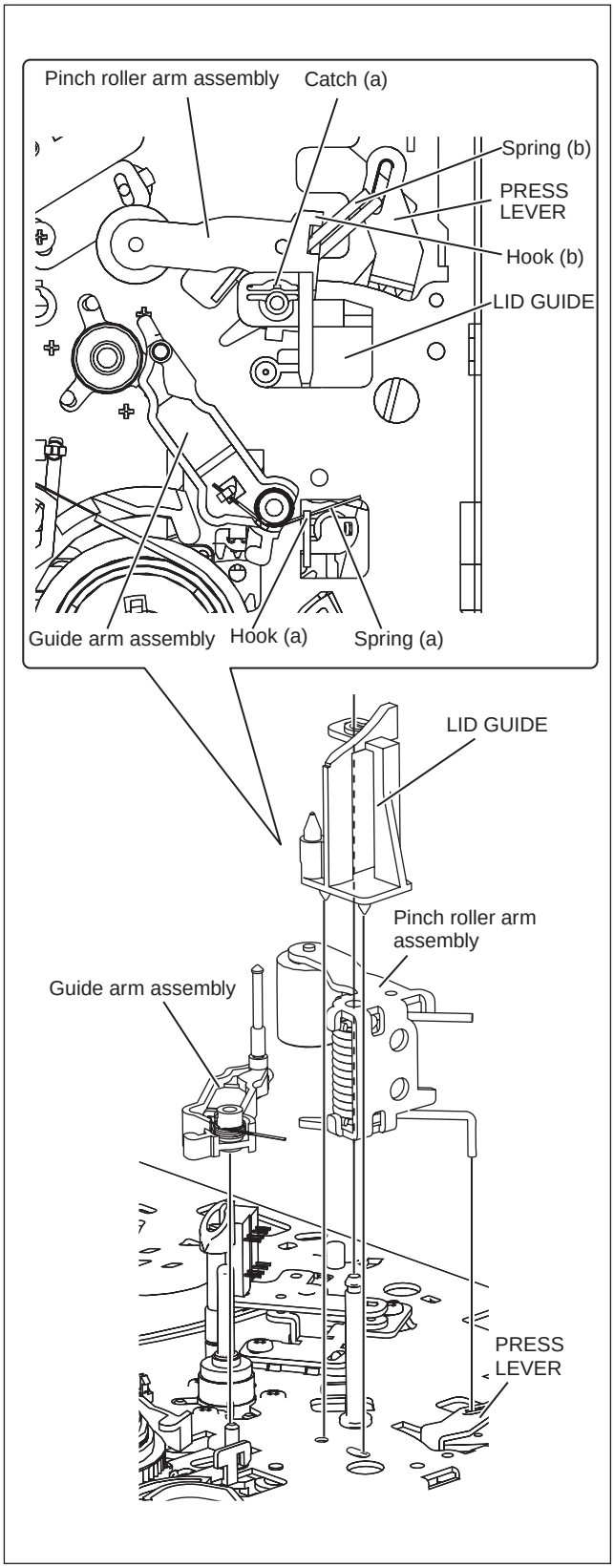



Fig.2-3-13

### 2.3.6.4 Idler arm, idler gear 1/2

#### 2.3.6.4.1 Removal

(1) Release the catches (a) and (b) to detach the idler arm.
(2) Detach the idler gear 1/2.

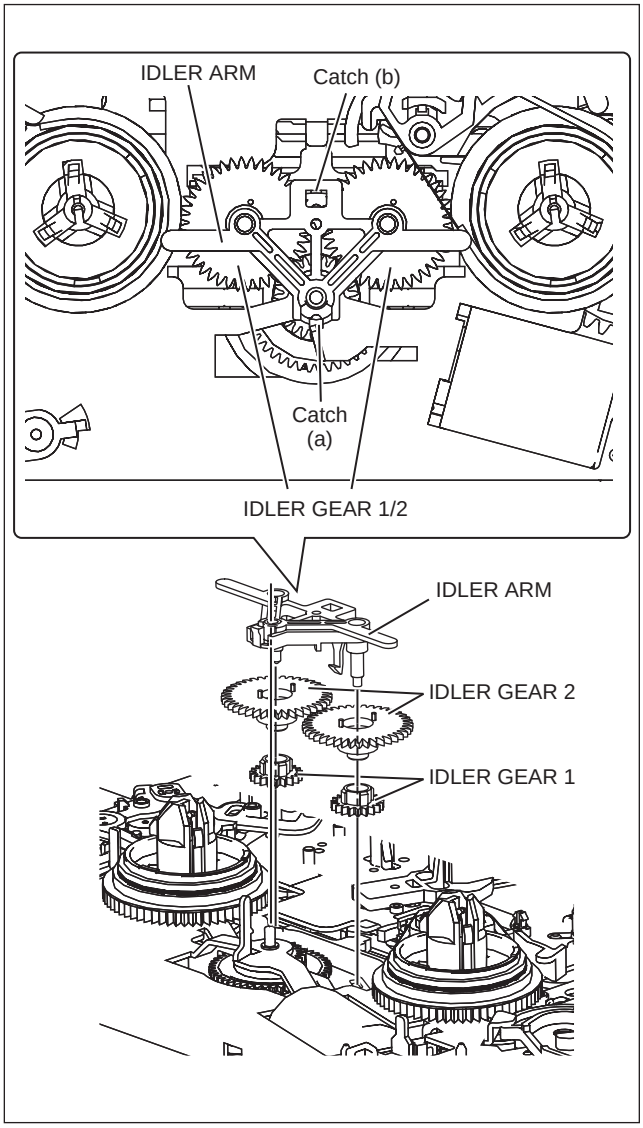



Fig.2-3-14

### 2.3.6.5 Main brake (T), brake lever, tension arm, reel disk (S/T), Rec safety lever

#### 2.3.6.5.1 Removal

(1) Remove the spring (a). (Detach section (b) of the spring (a).)
(2) Release the catch (a) to detach the main brake (T).
(3) Release the catch (b) to detach the reel disk (T) and the spacer.
(4) Lift up and turn section (b) of the brake lever counterclockwise to remove the brake lever.
(5) Remove the spring (b) from the hook (a).
(6) Release the catch (c) to detach the tension arm.
(7) Release the catch (d) to detach the reel disk (S) and the spacer.
(8) Remove the spring (c) from the hook (b).
(9) Turn the tension arm base in the direction shown by arrow (a) to release catch (e). Place the projections of the tension arm base to the holes (a) to detach the tension arm base.
(10) While releasing the catch (f), turn the Rec safety lever counterclockwise to remove it.

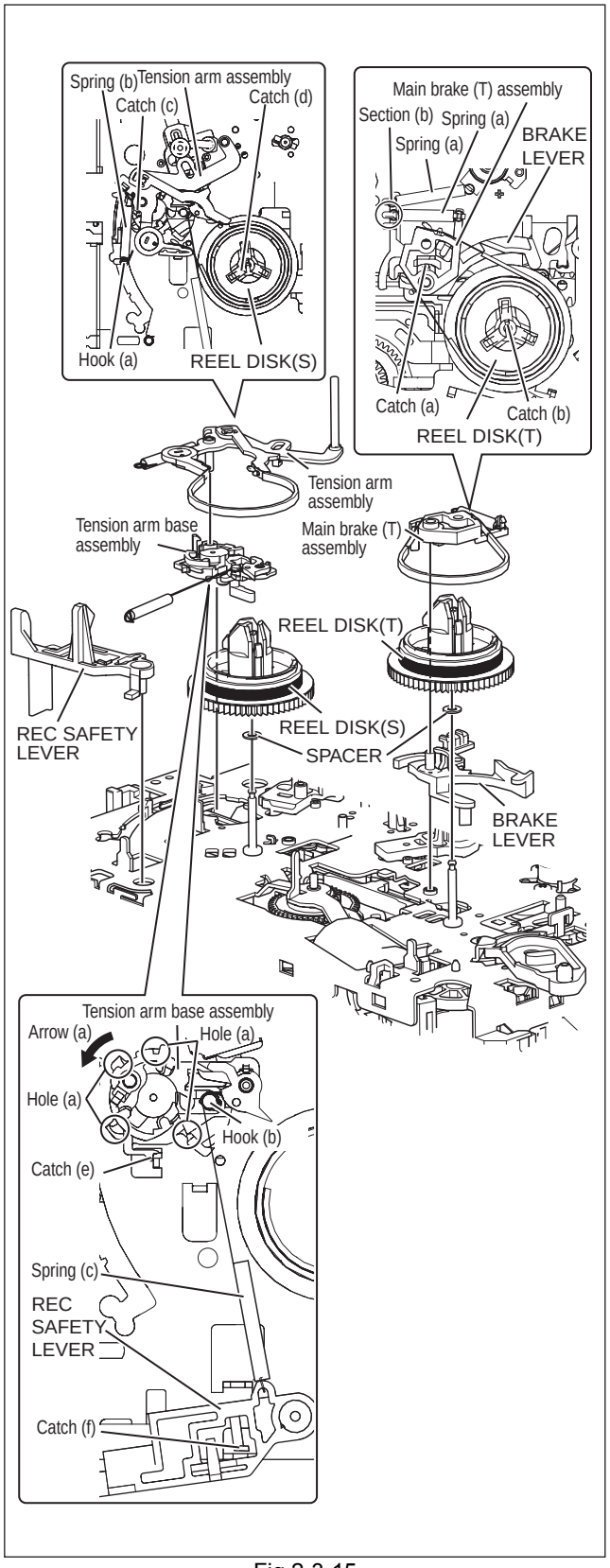



Fig.2-3-15

### 2.3.6.6 Press lever, control cam, capstan brake assembly, loading motor assembly

#### 2.3.6.6.1 Removal

(1) Remove the slit washer (a) to detach the press lever.
(2) Release the slit washer (b) to detach the control cam.
(3) Release the catch (b) to detach the capstan brake assembly.
(4) Remove the solder (a).
(5) Remove the screw (a).
(6) Release the catches (c) and (d) to detach the loading motor assembly.

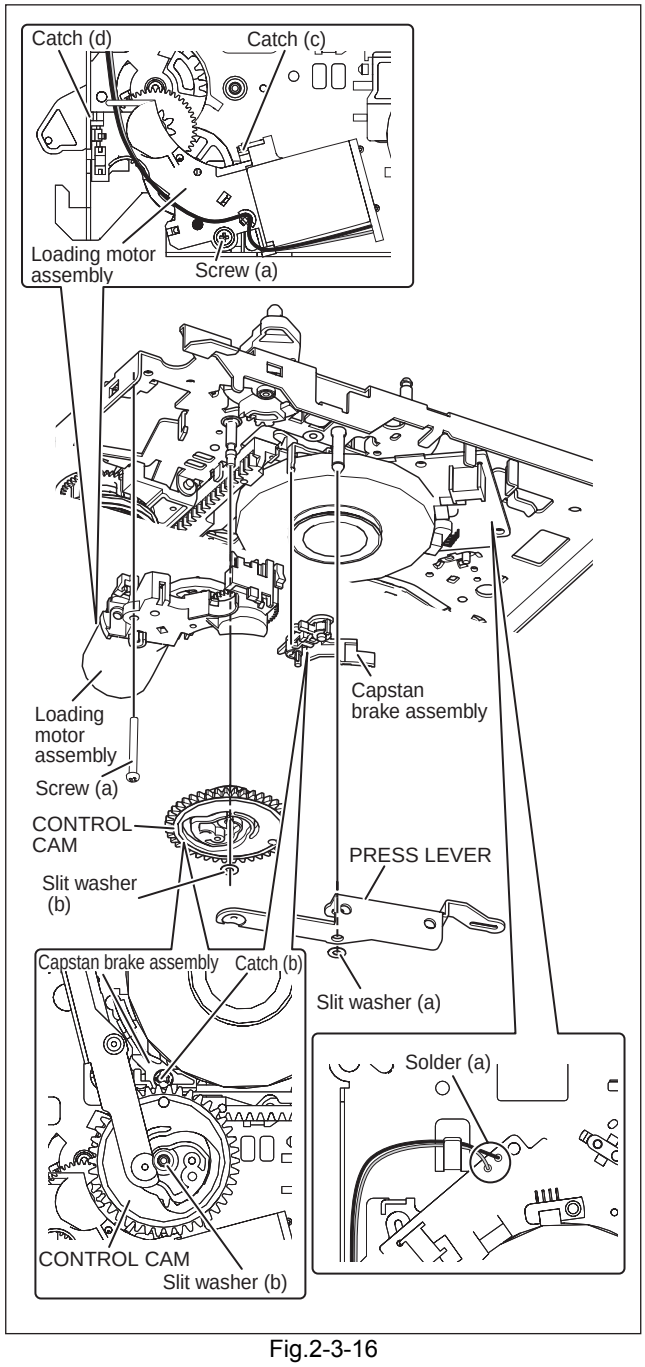



Fig.2-3-16

**2.3.6.6.2 Installation (phase adjustment)**

(1) Attach the loading motor assembly to the main deck.
(2) Secure the screw (a).
(3) Solder the wire to section (a).
(4) Arrange the wire along with the position guide (b).
(5) Attach the capstan brake assembly to the main deck.
(6) Place the main deck on the guide hole (a) of the control plate.
(7) Place the main deck on the guide hole (b) of the drive lever.
(8) Place the main deck no guide hole (c) of the control cam to install the control cam.
(9) Move the capstan brake in the direction shown by the arrow (a) to attach the press lever to the shaft (a). Make sure that the boss of the press lever fits in the control cam, and that the shaft (b) of the pinch roller arm assembly connects with the hole of the press lever.
(10) Attach slit washer (a) to shaft (a).

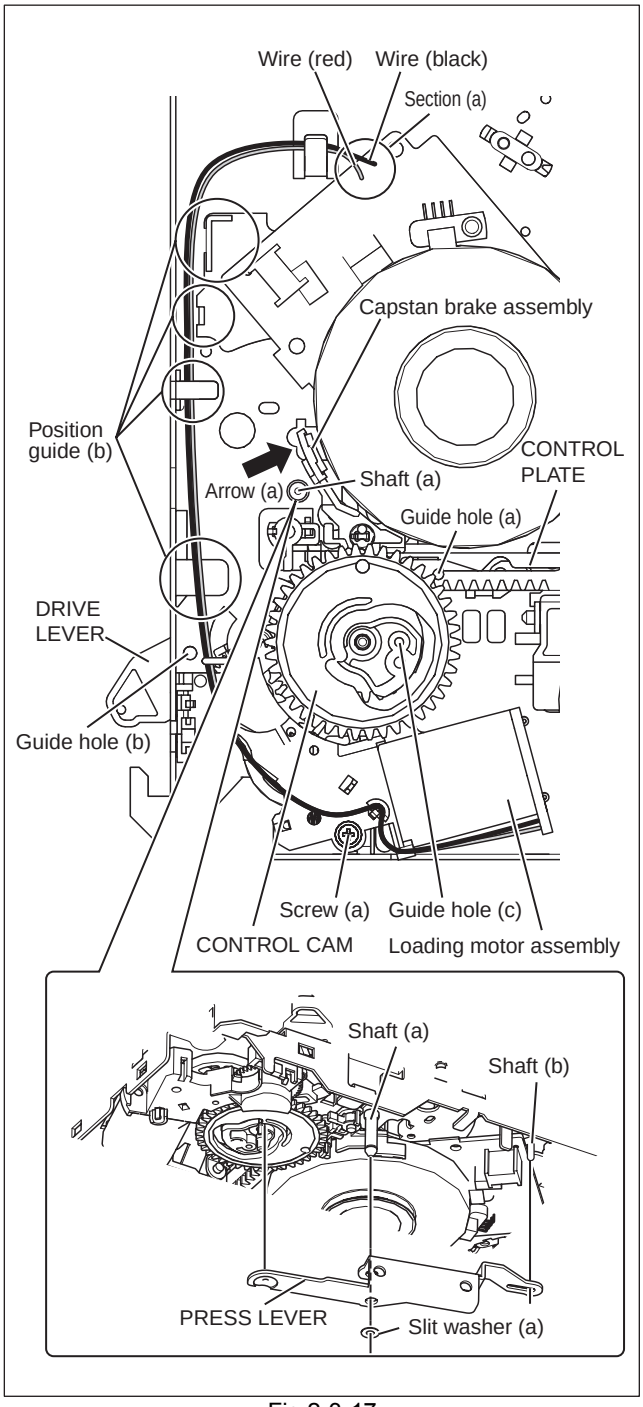



Fig.2-3-17

**Note:**

- When replacing the worm bearing of the loading motor assembly, attach it according to the following specification.
  If worm bearing is not attached correctly, a mechanism noise may occur. (See Fig. 2-3-18)

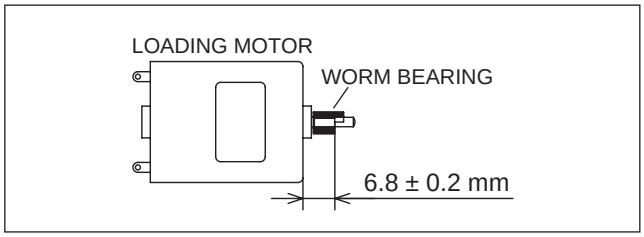



Fig.2-3-18

### 2.3.6.7 Capstan motor, load gear, control plate

#### 2.3.6.7.1 Removal

(1) Detach the belt.
(2) Check that the FFC connector on the drum is disconnected.
(3) Release the catch (a) to remove the FFC wire.
(4) Remove the screws (a) to detach the capstan motor.
(5) Remove the screws (b) to detach the fixing plate.
(6) Release the catch (b) to detach the load gear.
(7) Turn the load gear (S/T) in the loading direction to detach it.
(8) Remove the control plate.

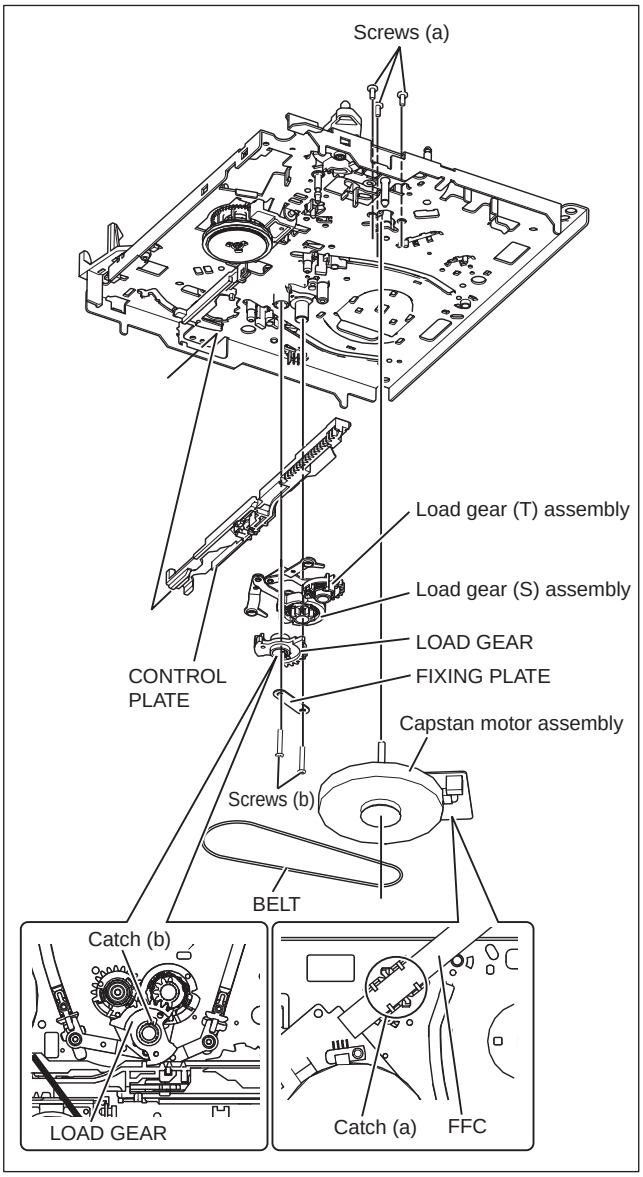



Fig.2-3-19

#### 2.3.6.7.2 Installation (phase adjustment)

(1) Place the main deck on the guide hole (a) of the tension arm lever.
(2) Place the main deck on the guide hole (b) of the brake lever.
(3) Attach the control plate to align with the position guide (a).
(4) Place the hole (c) of the load arm (T) on the pole base (T) and the load gear (T) on the load gear base.
(5) Place the hole (d) of the load arm (S) on the pole base (S) and the load gear (S) on the load gear base. Be sure to align the guide mark (e) of the load gear (T) to that of the load gear (S).
(6) Turn the load gear (S/T) in the unloading direction to place the main deck on the guide hole (f) of the load gear (T).
(7) Place the main deck on the guide hole (g) of the control plate.
(8) Attach the load gear on the load gear base so that the control plate is placed on the edge (h) of the load gear.
(9) Place the fixing plate on the shaft of the load gear base and secure the screws (b).

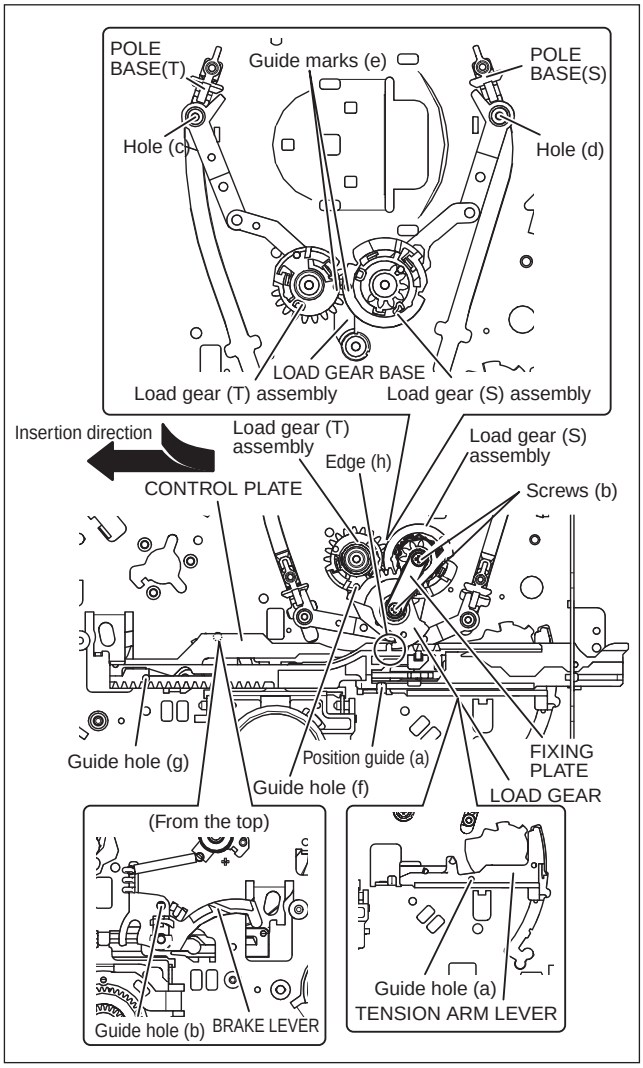



Fig.2-3-20

### 2.3.6.8 Clutch unit assembly, direct gear

#### 2.3.6.8.1 Removal

(1) Remove the slit washer (a) to detach the clutch unit assembly.
(2) Remove the spring (a) and the direct gear.

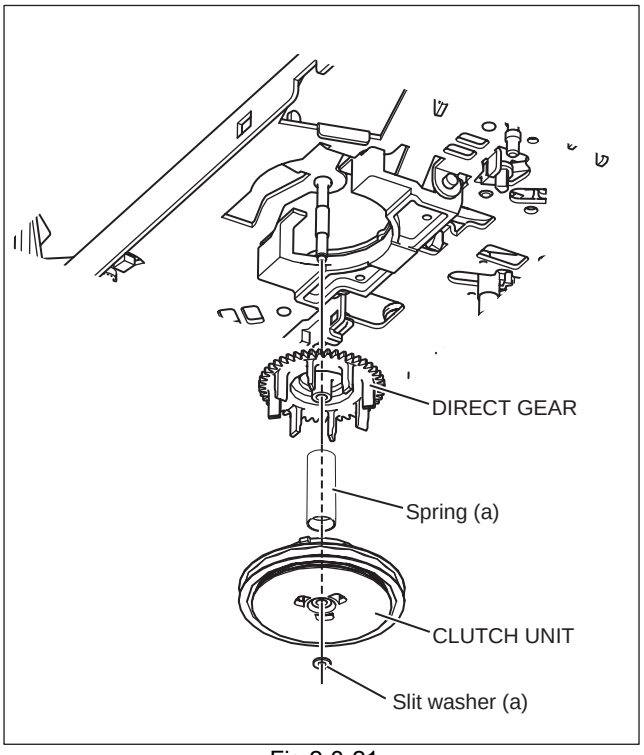
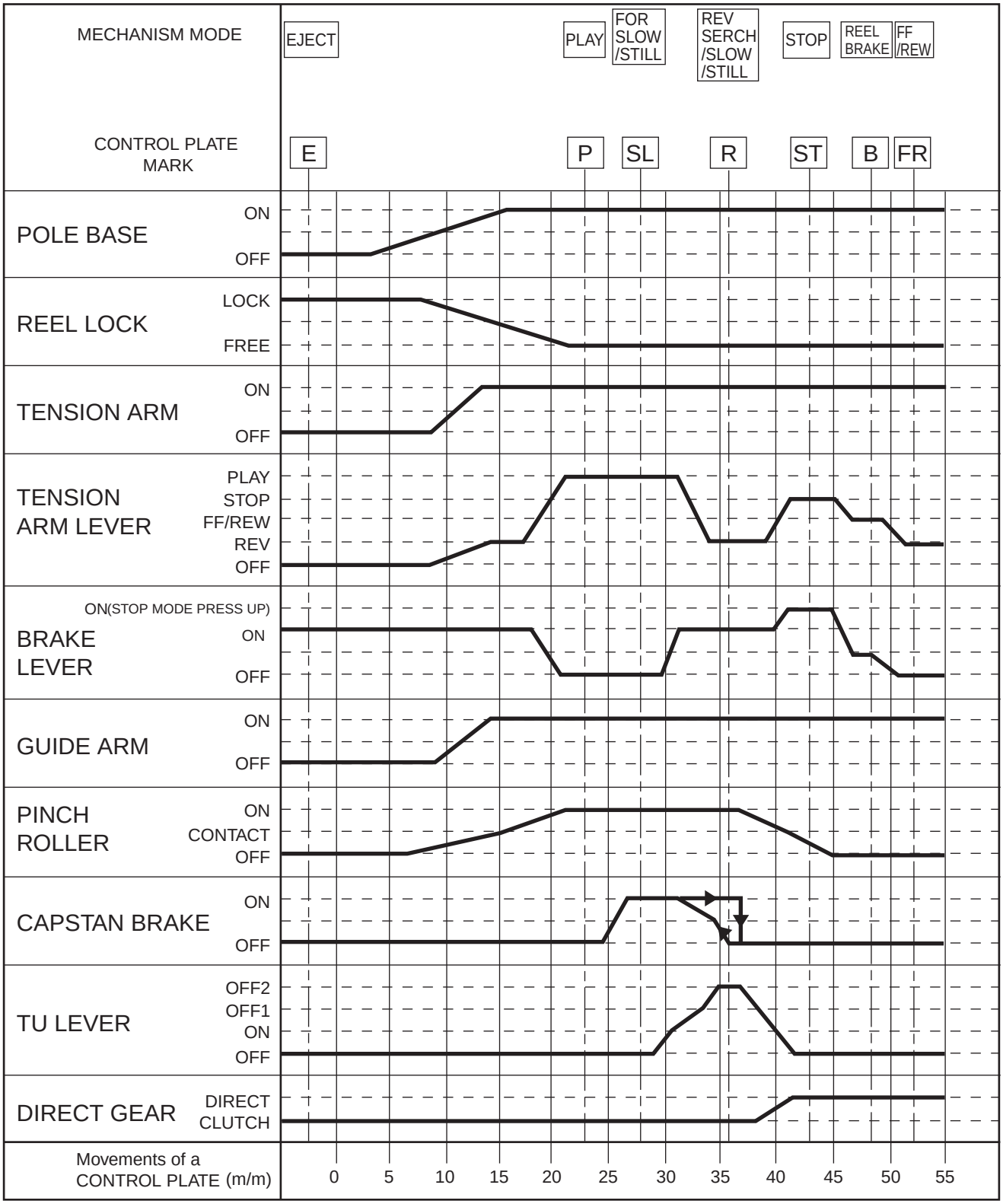



Fig.2-3-21

### 2.3.7 MECHANISM TIMING CHART



### 2.3.8 REMARKS

#### 2.3.8.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

**NOTE:**
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

#### 2.3.8.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.3 VHS MECHANISM ASSEMBLY. Fig.2-3-22 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

| Classification | Part No. | Symbol in drawing |
|---|---|---|
| Grease | KYODO-SH-JB | AA |
| Oil | COSMO-HV56 | BB |

specifies oil and grease to be used

Fig.2-3-22

JVC

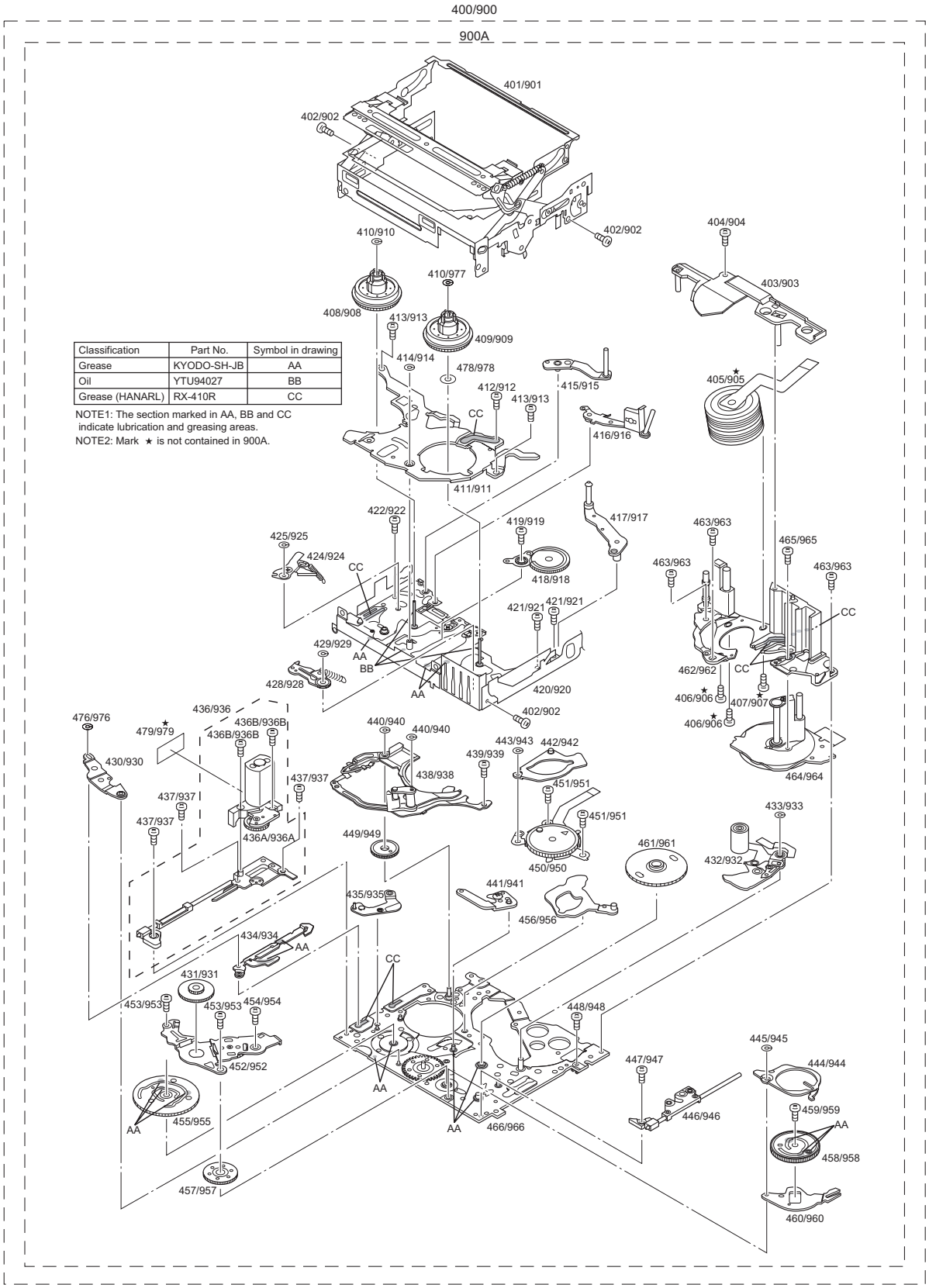
**VICTOR COMPANY OF JAPAN, LIMITED**
AV & MULTIMEDIA COMPANY CAMCORDER CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.86700)

Printed in Japan
200304WPC

# SECTION 3
# PARTS LIST

## 3.1 DVC MECHANISM ASSEMBLY



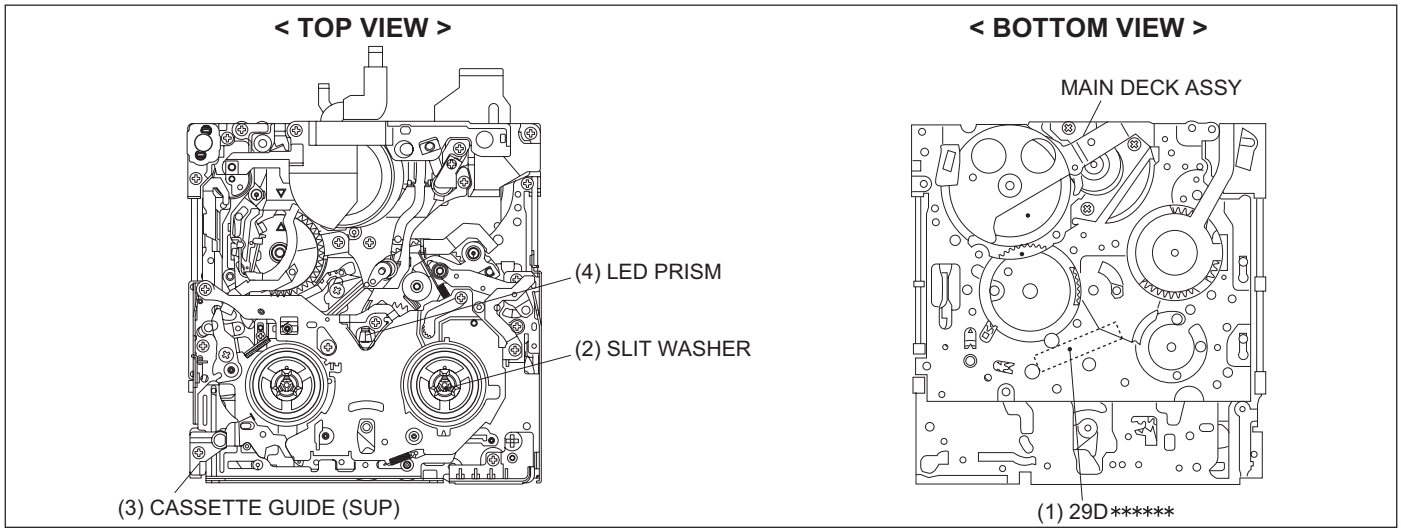

| Classification | Part No. | Symbol in drawing |
|---|---|---|
| Grease | KYODO-SH-JB | AA |
| Oil | YTU94027 | BB |
| Grease (HANARL) | RX-410R | CC |

NOTE1: The section marked in AA, BB and CC indicate lubrication and greasing areas.
NOTE2: Mark ★ is not contained in 900A.

Fig.3-1-1

### 3.1.1 DVC MECHANISM ASSEMBLY PART LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.
- To distinguish the mechanism assembly with the symbol number of 400-499 from the mechanism assembly with the symbol number of 900-999, see the following procedures.
  (1) See the numbers on the backside of the MAIN DECK ASSY.
  For example, "29D******" is printed on the backside of the mechanism assembly with the symbol number of 900-999 (YMA0029D in this example). See the first three characters and numbers from the left.
  (2) See the color of the SLIT WASHER on the REEL DISK (TU).
  A red slit washer is used (the same color as a slit washer of CASSETTE GUIDE (SUP)) in the mechanism assembly with the symbol number of 400-499. A black slit washer is used in the mechanism assembly with the symbol number of 900-999.
  However, the black slit washer may be changed into a red one for the purpose of parts unification.
  (3) See the color of the CASSETTE GUIDE(SUP).
  Light-brown CASSETTE GUIDE(SUP) is used in the mechanism assembly with the symbol number of 400-499.
  Black CASSETTE GUIDE(SUP) is used in the mechanism assembly with the symbol number of 900-999.
  (4) See the shape of the LED PRISM. LED PRISM consists of only resin in the mechanism assembly with the symbol number of 400-499.
  Upper part of the LED PRISM is covered with black metal in the mechanism assembly with the symbol number of 900-999.



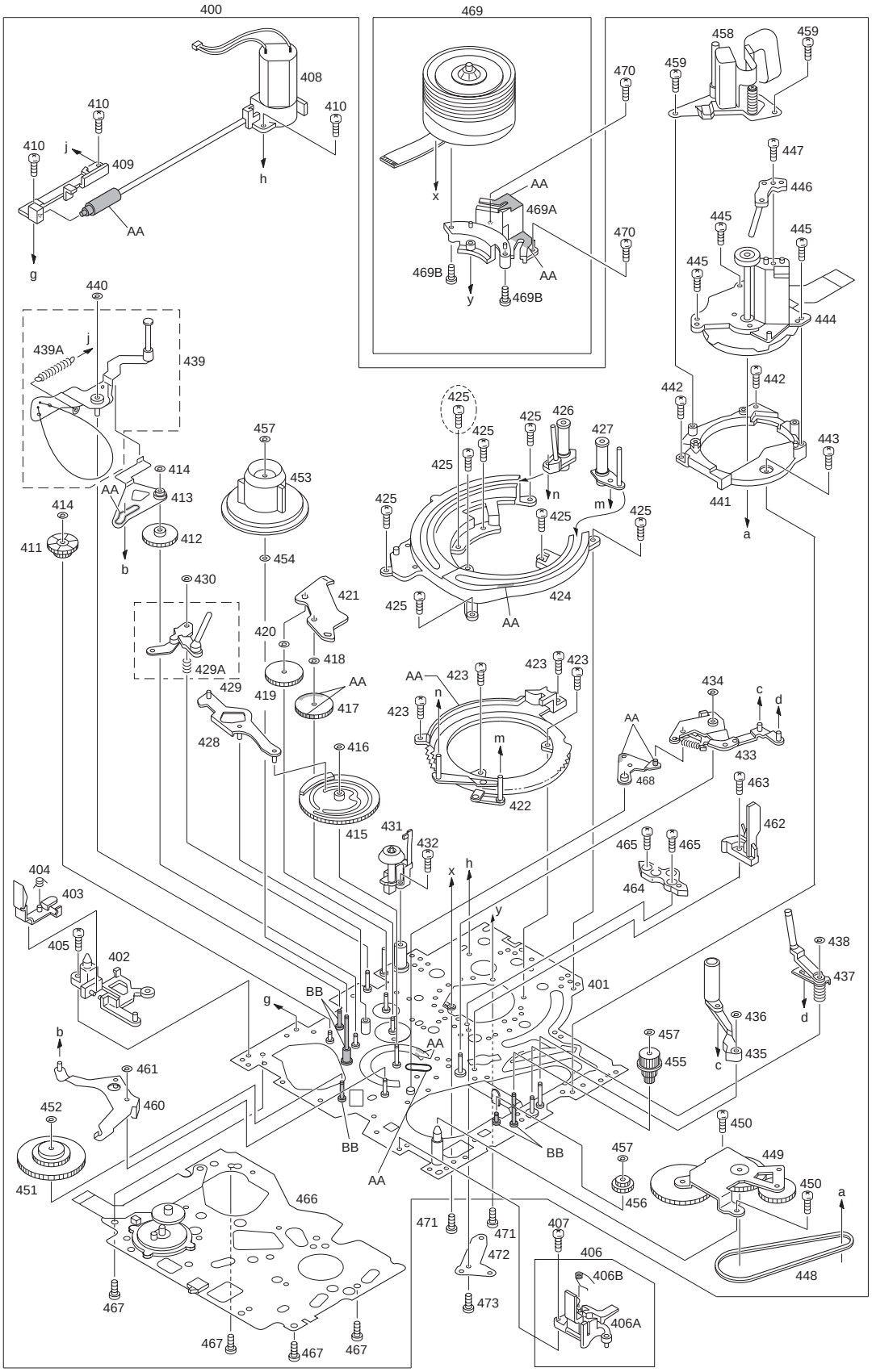

| Part Name | Symbol No. | Part No. | Part No. | Part No. | Symbol No. | Part No. | Patr No. |
|---|---|---|---|---|---|---|---|
| MECHA(A) ASSY | 400 | YMA0029C | YMA0029M | YMA0029L | 900 | YMA0029H | YMA0029E |
| MECHA(A)ASSY | - | - | - | - | 900A | YMA0029D | - |
| CASSETTE HOUSING ASSY | 401 | LY31543-002E* | LY31543-002H | ← | 901 | LY32870-001G* | LY32870-001J |
| MINI SCREW,X3 | 402 | YQ43893-8 | ← | ← | 902 | ← | ← |
| UPPER BASE ASSY | 403 | LY31542-001J | ← | ← | 903 | LYH30420-001A | ← |
| MINI SCREW | 404 | YQ43893* | QYSPSPU1425M | ← | 904 | ← | ← |
| DRUM ASSY | 405 | ** | ** | ** | 905 | ** | ** |
| DAMP.SCREW ASSY,X2 | 406 | LY42820-001A | ← | ← | 906 | ← | ← |
| DAMP.SCREW ASSY | 407 | LY42820-002A | ← | ← | 907 | ← | ← |
| REEL DISK ASSY (SUP) | 408 | LY31538-001B* | LY31538-001F | ← | 908 | ← | ← |
| REEL DISK ASSY (TU) | 409 | LY31538-002B* | LY31538-002H | LY31538-002G | 909 | LY31538-002H | ← |
| SLIT WASHER,X2 or X1 | 410 | YQ44246,(x2) | ←,(x2) | ←,(x2) | 910 | ←*,(x1) | ←,(x2) |
| REEL COVER ASSY | 411 | LY10217-001A* | LY10217-001F | ← | 911 | LY10372-001D | ← |
| MINI SCREW | 412 | LY42120-001A* | LY42120-002A | ← | 912 | ← | ← |
| MINI SCREW,X2 | 413 | LY41945-003A | ← | ← | 913 | ← | ← |
| SLIT WASHER | 414 | YQ44246 | ← | ← | 914 | ← | ← |
| TENSION ARM ASSY | 415 | LY42025-001C | ← | ← | 915 | LY43725-001D | ← |
| SLANT POLE ARM ASSY | 416 | LY31535-001F | ← | ← | 916 | LYH40269-001A | ← |
| TU ARM ASSY | 417 | LY42031-001G* | LY42031-001K | ← | 917 | LY43731-001F | ← |
| SWING ARM ASSY | 418 | LY31531-001D | ← | ← | 918 | ← | ← |
| MINI SCREW | 419 | YQ43893 | ← | ← | 919 | ← | ← |
| SLIDE DECK FINAL ASSY | 420 | LY20530-003B* | LY20530-003E | ← | 920 | LYH30424-001A | ← |

| Part Name | Symbol No. | Part No. | Part No. | Part No. | Symbol No. | Part No. | Patr No. |
|---|---|---|---|---|---|---|---|
| MINI SCREW,X2 | 421 | YQ43893 | ← | ← | 921 | ← | ← |
| MINI SCREW | 422 | LY43023-001A | ← | ← | 922 | ← | ← |
| PAD ARM ASSY | 424 | LY31533-001E | ← | ← | 924 | LYH30419-001A | ← |
| SLIT WASHER | 425 | YQ44246 | ← | ← | 925 | ← | ← |
| TU BRAKE ASSY | 428 | LY42016-001B | ← | ← | 928 | LYH40270-001A | ← |
| SLIT WASHER | 429 | YQ44246 | ← | ← | 929 | ← | ← |
| TENSION CONTROL LEVER ASSY | 430 | LY41959-001B | ← | ← | 930 | LY43684-001A | ← |
| CENTER GEAR | 431 | LY31525-001B | ← | ← | 931 | LY32861-001A | ← |
| PINCH ROLLER ARM FINAL ASSY | 432 | LY31516-001E | ← | LY31516-001F | 932 | ← | ← |
| SLIT WASHER | 433 | YQ44246 | ← | ← | 933 | ← | ← |
| TENSION CONTROL PLATE ASSY | 434 | LY41956-001C | ← | ← | 934 | LY43681-001A | ← |
| BRAKE CONTROL LEVER ASSY | 435 | LY41962-001B* | LY41962-001C | ← | 935 | LY43687-001A | ← |
| MOTOR BRACKET ASSY | 436 | LY20525-002C | ← | ← | 936 | LYH30421-001A | ← |
| LOADING MOTOR | 436A | QAR0138-001 | ← | ← | 936A | ← | ← |
| TAPPING SCREW,x2 | 436B | LY41940-001A | ← | ← | 936B | ← | ← |
| MINI SCREW,x3 | 437 | YQ43893 | ← | ← | 937 | ← | ← |
| GUIDE RAIL ASSY | 438 | LY20528-001R* | LY20528-001U | ← | 938 | LYH30422-001A | ← |
| MINI SCREW | 439 | YQ43893 | ← | ← | 939 | ← | ← |
| SLIT WASHER,X2 | 440 | YQ44246 | ← | ← | 940 | ← | ← |
| SLIDE LEVER2 ASSY | 441 | LY31498-001C | ← | LY31498-001D | 941 | LY32843-001A | ← |
| LOADING PLATE ASSY | 442 | LY41965-001A | ← | ← | 942 | LY43690-001A | ← |
| SLIT WASHER | 443 | YQ44246 | ← | ← | 943 | ← | ← |
| EJECT LEVER | 444 | LY31522-001B | ← | ← | 944 | LY32858-001A | ← |
| SLIT WASHER | 445 | YQ44246 | ← | ← | 945 | ← | ← |
| BASE R ASSY | 446 | LY41929-001E* | LY41929-001F | ← | 946 | LYH40271-001A | ← |
| MINI SCREW | 447 | YQ43893 | ← | ← | 947 | ← | ← |
| MINI SCREW | 448 | LY41945-001B | ← | ← | 948 | ← | ← |
| MODE GEAR | 449 | LY41930-001A | ← | ← | 949 | LY43665-001A | ← |
| ROTARY ENCODER | 450 | QSW0876-003 | ← | ← | 950 | ← | ← |
| MINI SCREW,X2 | 451 | YQ43893 | ← | ← | 951 | ← | ← |
| GEAR COVER ASSY | 452 | LY31524-001A | ← | ← | 952 | LY32860-001A | ← |
| MINI SCREW,X2 | 453 | YQ43893 | ← | ← | 953 | ← | ← |
| MINI SCREW | 454 | YQ43893-4 | ← | ← | 954 | ← | ← |
| MAIN CAM ASSY | 455 | LY41948-001C | ← | ← | 955 | LY43676-001A | ← |
| SLIDE ARM ASSY | 456 | LY41941-001B | ← | ← | 956 | ← | ← |
| CONNECT GEAR 2 | 457 | LY41951-001B | ← | ← | 957 | LY43678-001A | ← |
| SUB CAM ASSY | 458 | LY41954-001B | ← | LY41954-001E | 958 | ← | ← |
| MINI SCREW | 459 | LY42120-001A | ← | ← | 959 | ← | ← |
| CONTROL ARM ASSY | 460 | LY41952-001A | ← | ← | 960 | LY43692-001A | ← |
| REEL GEAR 1 | 461 | LY31523-001B | ← | ← | 961 | LY32859-001A | ← |
| DRUM BASE ASSY | 462 | LY31508-002A* | LY31508-002B | LY33372-001A | 962 | LY31508-002B | ← |
| SCREW,X3 | 463 | QYSPSPU1425M | ← | ← | 963 | ← | ← |
| CAPSTAN MOTOR | 464 | QAR0142-001 | ← | ← | 964 | ← | ← |
| MINI SCREW | 465 | YQ43893 | ← | ← | 965 | ← | ← |
| MAIN DECK ASSY | 466 | LY10210-001D* | LY10210-001G | ← | 966 | LY10367-001D* | LY10367-001E |
| SLIT WASHER | 476 | YQ44246 | ← | ← | 976 | ← | ← |
| SLIT WASHER | 477 | - | - | - | 977 | YQ44246-6 | - |
| WASHER | 478 | - | - | - | 978 | LY42047-005A | ← |
| SPACER | 479 | -* | LY43987-001B | ← | 979 | ← | ← |

**NOTE:**

MARK ← is same as left.
MARK - is not used.
MARK * reference model was also changed.
MARK ** shows different parts number, depending on models.

### 3.2 VHS-C MECHANISM ASSEMBLY




| Classification | Part No. | Symbol in drawing |
|---|---|---|
| Grease | KYODO-SH-JB | AA |
| Oil | YTU94027 | BB |

**NOTE:** The section marked in **AA** and **BB** indicate lubrication and greasing areas.

Fig.3-2-1

### 3.2.1 VHS-C MECHANISM ASSEMBLY PARTS LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.

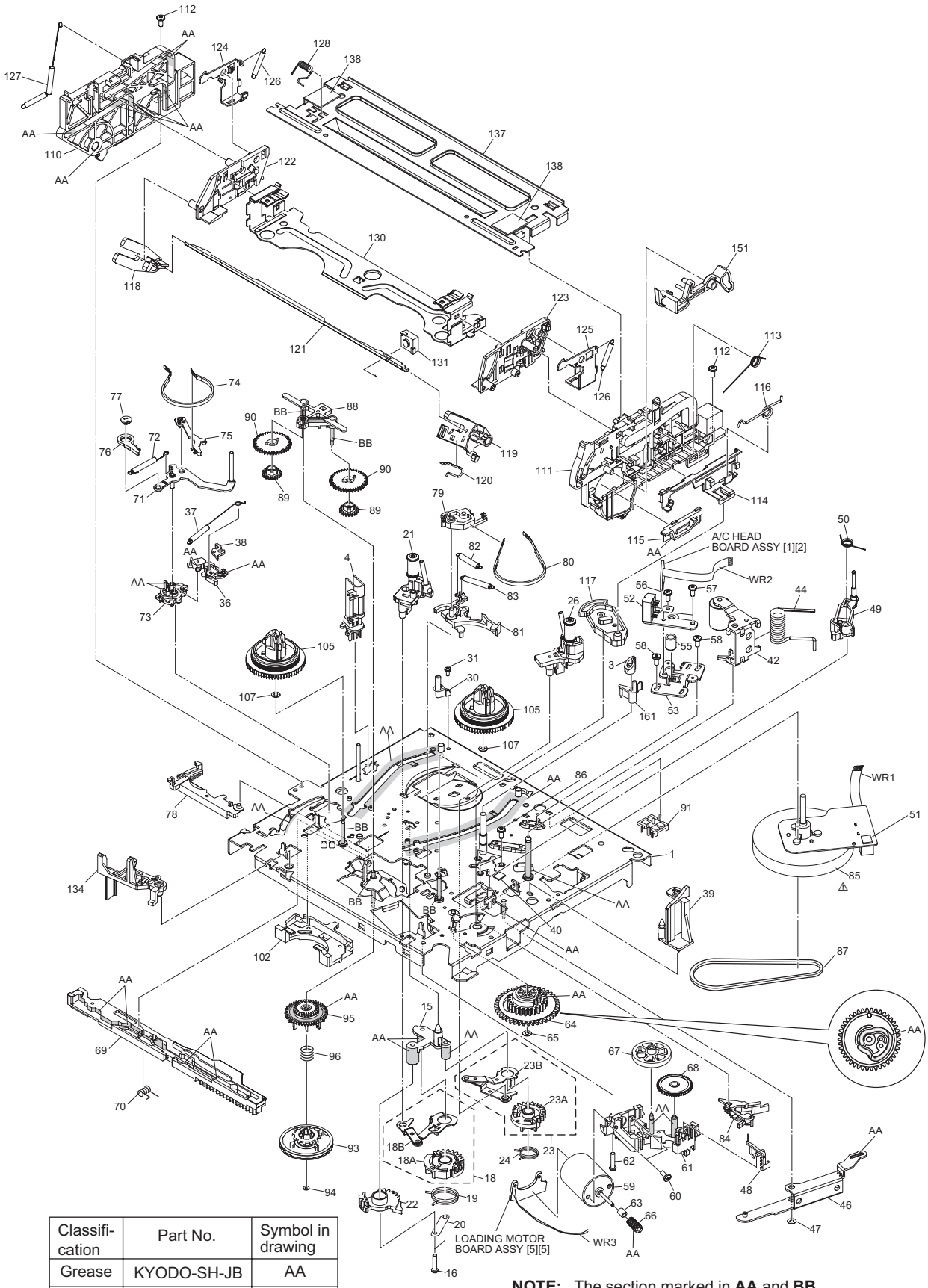
| Part Name | Symbol No. | Part No. | Part No. | Part No. | Part No. | Part No. |
|---|---|---|---|---|---|---|
| MECHA(B) ASSY | 400 | YMA0033A-E | YMA0042A-E | YMA0034A-E | YMA0036A-E | YMA0040A-E |
| MAIN DECK ASSY | 401 | LY20612-001B | ← | ← | ← | ← |
| CASSETTE GUIDE (LEFT) | 402 | LY31817-001A | ← | ← | ← | ← |
| SW LEVER (LEFT) | 403 | LY31815-001A | ← | ← | ← | ← |
| TORSION SPRING | 404 | LY42581-001A | ← | ← | ← | ← |
| SCREW | 405 | LY42722-001A | ← | ← | ← | ← |
| CASSETTE GUIDE ASSY(RIGHT) | 406 | - | - | YQ44339A-7 | ← | ← |
| SW.LEVER(RIGHT) | 406A | - | - | YQ32162-1-3 | ← | ← |
| TORSION SPRING | 406B | - | - | YQ44340-1-4 | ← | ← |
| SCREW | 407 | - | - | LY42819-001A | ← | ← |
| MOTOR BRACKET ASSY | 408 | LY31826-001A | ← | ← | ← | ← |
| WORM BRACKET | 409 | YQ20793 | LY20951-001A | YQ20793 | ← | LY20951-001A |
| SCREW,X3 | 410 | LY42722-001A | ← | ← | ← | ← |
| WHEEL GEAR | 411 | LY31925-001A | ← | ← | ← | ← |
| MIDDLE GEAR | 412 | LY42730-001A | ← | ← | ← | ← |
| CANCEL LEVER ASSY | 413 | LY42521-001A | ← | ← | ← | ← |
| SLIT WASHER,X2 | 414 | LY42754-003A | ← | ← | ← | ← |
| CONTROL CAM | 415 | YQ20827-2-1 | ← | ← | ← | ← |
| SLIT WASHER | 416 | PQM30017-25 | ← | ← | ← | ← |
| LOADING GEAR(T)ASSY | 417 | LY42733-001A | ← | ← | ← | ← |
| SLIT WASHER | 418 | LY42754-003A | ← | ← | ← | ← |
| LOADING GEAR(S)ASSY | 419 | LY42732-001A | ← | ← | ← | ← |
| SLIT WASHER | 420 | LY42754-003A | ← | ← | ← | ← |
| COVER PLATE | 421 | LY42403-001A | ← | ← | ← | ← |
| LOADING RING ASSY | 422 | LY42452-001A | ← | ← | ← | ← |
| SCREW,X4 | 423 | LY42728-001A | ← | ← | ← | ← |
| GUIDE RAIL | 424 | LY10239-001A | ← | ← | ← | ← |
| SCREW,X8 or X7 | 425 | LY42728-001A,(X8) | ←,(X7) | ←,(X8) | ←,(X8) | ←,(X7) |
| POLE BASE(S)ASSY | 426 | LY30161-001B | ← | ← | ← | ← |
| POLE BASE(T)ASSY | 427 | LY30162-002A | ← | ← | ← | ← |
| DRIVE LEVER ASSY | 428 | LY42523-001A | ← | ← | ← | ← |
| SLANT ARM ASSY | 429 | LY42545-001B | LY44000-001B | LY42545-001B | ← | LY44000-001B |
| TORSION SPRING(S) | 429A | LY42547-001A | LY43992-001A | LY42547-001A | ← | LY43992-001A |
| SLIT WASHER | 430 | LY42754-003A | ← | ← | ← | ← |
| ROLLER BASE ASSY | 431 | LY42739-003A | ← | ← | ← | ← |
| SCREW | 432 | LY42722-001A | ← | ← | ← | ← |
| LINK ARM ASSY | 433 | LY42494-001A | ← | ← | ← | ← |
| SLIT WASHER | 434 | PQM30017-25 | ← | ← | ← | ← |
| PINCH ROLLER ARM ASSY | 435 | LY40018-002A | ← | ← | LY40018-005A | ← |
| SLIT WASHER | 436 | PQM30017-25 | ← | ← | ← | ← |
| TAKE UP GUIDE ARM ASSY | 437 | LY42541-001B | ← | ← | ← | ← |
| SLIT WASHER | 438 | LY42754-003A | ← | ← | ← | ← |
| TENSION ARM ASSY | 439 | LY42571-001A | ← | ← | ← | ← |
| TENSION SPRING | 439A | LY42669-001A | ← | ← | ← | ← |
| SLIT WASHER | 440 | LY42754-003A | ← | ← | ← | ← |
| MOTOR BASE | 441 | YQ20797-1-5 | ← | ← | ← | ← |
| SCREW,X2 | 442 | LY42722-001A | ← | ← | ← | ← |
| SCREW | 443 | YQ44460 | ← | ← | ← | ← |
| CAPSTAN MOTOR | 444 | QAR0212-001 | QAR0212-002 | QAR0212-001 | QAR0212-002 | ← |
| TAPPING SCREW,X3 | 445 | YQ44304 | ← | ← | ← | ← |
| SLANT POLE BASE ASSY | 446 | LY42731-001A | ← | ← | ← | ← |
| TAPPING SCREW | 447 | YQ44304 | ← | ← | ← | ← |
| TIMING BELT | 448 | YQ43710-2 | ← | ← | ← | ← |
| CENTER PULLEY UNIT | 449 | LY42678-001A | ← | ← | ← | LY42678-003A |

| Part Name | Symbol No. | Part No. | Part No. | Part No. | Part No. | Part No. |
|---|---|---|---|---|---|---|
| SCREW,X2 | 450 | LY42722-002A | ← | ← | ← | ← |
| SUPPLY CLUTCH ASSY | 451 | LY42670-001A | ← | ← | ← | ← |
| SLIT WASHER | 452 | LY42754-003A | ← | ← | ← | ← |
| REEL DISC | 453 | YQ31861-1-7 | ← | ← | ← | ← |
| WASHER | 454 | LY42755-001A | ← | ← | ← | ← |
| TAKE UP GEAR | 455 | LY31924-001A | ← | ← | ← | ← |
| BRAKE SUB GEAR | 456 | LY42738-001A | ← | ← | ← | ← |
| SLIT WASHER,X3 | 457 | LY42754-003A | ← | ← | ← | ← |
| A/C HEAD UNIT | 458 | LY42544-001B | LY42544-002A | LY42544-001B | ← | LY42544-002A |
| SCREW,X2 | 459 | SPSN1750Z | ← | ← | ← | ← |
| EJECT LEVER ASSY | 460 | LY42517-001A | ← | ← | ← | ← |
| SLIT WASHER | 461 | LY42754-003A | ← | ← | ← | ← |
| LED GUIDE | 462 | YQ31833-1-1 | ← | ← | ← | ← |
| SCREW | 463 | LY42722-001A | ← | ← | ← | ← |
| DRUM SPACER | 464 | LY42729-001A | ← | ← | ← | ← |
| SCREW,X2 | 465 | LY42722-001A | ← | ← | ← | ← |
| ROTARY ENCODER | 466 | QSW0888-001 | ← | QSW0888-002 | ← | ← |
| SCREW,X4 | 467 | LY42722-002A | ← | ← | ← | ← |
| LINK LEVER | 468 | LY31814-001A | ← | ← | ← | ← |
| DRUM FINAL ASSY | 469 | ** | ** | ** | ** | ** |
| CATCHER | 469A | YDM1003-1-5 | ← | ← | ← | ← |
| SCREW,X2 | 469B | QYSPSPU1735M | ← | ← | ← | ← |
| SCREW,X2 | 470 | LY42722-001A | ← | ← | ← | ← |
| SCREW,X2 | 471 | SPSH1740Z | ← | ← | ← | ← |
| BRUSH | 472 | LY43542-001A | ← | ← | ← | ← |
| SCREW | 473 | LY42722-003A | ← | ← | ← | ← |
| CASSETTE HOUSING FINAL ASSY | *155/481 | LY31808-001C | LY31808-002C | LY31808-001C | LY31808-001D | LY31808-002C |
| SCREW,X4 | *156/482 | LY42722-003A | ← | ← | ← | ← |
| BRACKET(MECHA) | *161/484 | LY32326-001A | ← | ← | ← | ← |
| SCREW,X2 | *162/485 | LY42722-003A | ← | ← | ← | ← |
| SIDE BRACKET L | *164/487 | LY31807-001A | ← | ← | ← | ← |
| SCREW | *165/488 | LY42722-003A | ← | ← | ← | ← |

**NOTE:**

MARK ← is same as left.
MARK - is not used.
MARK * are shown in the parts list of FINAL ASSY of service manual of each model.
MARK ** shows different parts number, depending on models.

### 3.3 VHS MECHANISM ASSEMBLY




| Classification | Part No. | Symbol in drawing |
|---|---|---|
| Grease | KYODO-SH-JB | AA |
| Oil | COSMO-HV56 | BB |

**NOTE:** The section marked in **AA** and **BB** indicate lubrication and greasing areas.

Fig.3-3-1

### 3.3.1 VHS MECHANISM ASSEMBLY PARTS LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.

| System | | VHS | | S-VHS | |
|---|---|---|---|---|---|
| **Job No. | | V15D Series | V16D Series | V15S Series | V16S Series |
| Part Name | Symbol No. | Part No. | Part No. | Part No. | Part No. |
| MAIN DECK ASSY | 1 | LP21039-001N | LP21039-001S | LP21039-001R | LP21039-001S |
| GUIDE POLE CAP | 3 | LP40097-002D | ← | ← | ← |
| FULL ERASE HEAD | 4 | QAH0082-001 | ← | ← | ← |
| LOAD.GEAR BASE | 15 | LP30958-001B | ← | ← | ← |
| SCREW,X2 | 16 | QYTPST2620Z | ← | ← | ← |
| LORD.GEAR(SUPPLY) ASSY | 18 | LP40798-001A | ← | ← | ← |
| LORD.GEAR(SUPPLY) | 18A | LP21040-001A | ← | ← | ← |
| LORD.ARM(SUPPLY) ASSY | 18B | LP40799-001A | ← | ← | ← |
| TORSION SPRING(SUPPLY) | 19 | LP40837-001A | ← | ← | ← |
| FIXING PLATE | 20 | LP40903-001A | ← | ← | ← |
| POLE BASE ASSY(SUPPLY) | 21 | LP40806-001D | ← | ← | ← |
| LOAD GEAR | 22 | LP30959-002A | ← | ← | ← |
| LORD. GEAR(TAKE UP) ASSY | 23 | LP40802-001B | LP40802-001C | LP40802-001B | LP40802-001C |
| LORD. GEAR(TAKE UP) | 23A | LP21041-001B | LP21041-001C | LP21041-001B | LP21041-001C |
| LORD.ARM(TAKE UP) ASSY | 23B | LP40803-001A | ← | ← | ← |
| TORSION SPRING(TAKE UP) | 24 | LP40838-001A | ← | ← | ← |
| POLE BASE ASSY(TAKE UP) | 26 | LP40808-001F | LP40808-001E | ← | ← |
| ARM BASE | 30 | - | ← | LP31020-004A | ← |
| SCREW | 31 | - | ← | QYTDST2606Z | - |
| TU LEVER | 36 | LP21055-001E | ← | ← | ← |
| TENSION SPRING | 37 | LP40943-001A | ← | ← | ← |
| T-UP HEAD | 38 | LP40859-001D | ← | ← | ← |
| LID GUIDE | 39 | LP30961-001C | ← | ← | ← |
| SPACER | 40 | LP30002-0B7A | ← | ← | - |
| PINCH ROLLER ARM ASSY | 42 | LP40810-001A | ← | ← | ← |
| TORSION SPRING | 44 | LP40840-001C | LP40840-001D | ← | ← |
| PRESS LEVER | 46 | LP30963-001B | ← | ← | ← |
| SLIT WASHER | 47 | PQM30017-24 | ← | ← | ← |
| S-SWITCH | 48 | - | ← | LP40930-002E | ← |
| GIDE ARM ASSY | 49 | LP40813-001D | ← | ← | ← |
| TORSION SPRING | 50 | LP40841-001A | ← | ← | ← |
| SPACER | 51 | LP30002-090A | ← | ← | - |
| A/C HEAD | 52 | QAH0081-001 | ← | ← | ← |
| HEAD BASE | 53 | LP30965-001A | ← | ← | ← |
| COMPRESSION SPRING | 55 | LP40842-001A | LP40842-001D | LP40842-001A | LP40842-001D |
| SCREWX1 A/C HEAD | *56 | QYTDST2006M | ← | ← | ← |
| A/C HEAD SCREW,X2 | *57 | LP41036-001A | ← | ← | ← |
| SCREW,X2 A/C HEAD | *58 | QYTDST2606Z | ← | ← | ← |
| LOADING MOTOR | 59 | QAR0023-001 | ← | ← | ← |
| SCREW,X2 | 60 | QYTPSP3003Z | ← | ← | ← |
| MOTOR BRACKET | 61 | LP21056-002F | LP21056-002G | ← | ← |
| TAP SCREW | 62 | QYTPST2620Z | ← | ← | ← |
| WORM BEARING | 63 | LP40814-001B | ← | ← | ← |
| CONTROL CAM | 64 | LP21044-001D | ← | ← | ← |
| SLIT WASHER | 65 | PQM30017-24 | ← | ← | ← |
| WORM GEAR | 66 | LP40815-001A | ← | ← | ← |
| HELICAL GEAR | 67 | LP40816-001B | ← | ← | ← |
| CONNECT GEAR | 68 | LP40817-001A | ← | ← | ← |

| System | | VHS | | S-VHS | |
|---|---|---|---|---|---|
| **Job No. | | V15D Series | V16D Series | V15S Series | V16S Series |
| Part Name | Symbol No. | Part No. | Part No. | Part No. | Part No. |
| CONTROL PLATE | 69 | LP10400-001H | ← | ← | LP10400-001J |
| TORTION SPRING | 70 | LP40843-001A | ← | ← | ← |
| TENSION ARM ASSY | 71 | LP40818-001B | ← | ← | ← |
| TENSION SPRING | 72 | LP40844-001C | LP40844-001E | LP40844-001D | LP40844-001E |
| TENSION ARM BASE | 73 | LP21045-001D | ← | ← | ← |
| TENSION BAND ASSY | 74 | LP40821-001A | ← | ← | ← |
| BAND HOLDER-1 | 75 | LP30967-001B | ← | ← | ← |
| BAND HOLDER-2 | 76 | LP30968-001C | ← | ← | ← |
| ADJUST PIN | 77 | LP40822-002B | ← | ← | ← |
| TENSION ARM LEVER | 78 | LP31000-005E | ← | ← | ← |
| MAIN BRAKE(TAKE UP) | 79 | LP21046-001C | ← | ← | ← |
| BAND BRAKE ASSY | 80 | LP40824-001A | ← | ← | ← |
| BRAKE LEVER | 81 | LP30969-002A | LP30969-002B | LP30969-002A | LP30969-002B |
| TENSION SPRING | 82 | LP30003-033B | ← | ← | ← |
| TENSION SPRING | 83 | LP30003-035B | ← | ← | ← |
| CAPSTAN BRAKE ASSY | 84 | LP40825-001B | ← | ← | ← |
| CAPSTAN MOTOR | 85 | QAR0204-002 | ← | ← | ← |
| SCREW,X3 CAPSTAN MOTOR | 86 | QYTPSG2606M | QYTPSG2606Z | QYTPSG2606M | QYTPSG2606Z |
| BELTCAPSTAN MOTOR | 87 | LP30005-010A | ← | ← | ← |
| IDLER ARM | 88 | LP30970-001A | ← | ← | ← |
| IDLER GEAR 1,X2 | 89 | LP40828-004A | ← | ← | ← |
| IDLER GEAR 2,X2 | 90 | LP40829-001B | LP40829-002A | LP40829-001B | LP40829-002A |
| WIRE HOLDER | 91 | LP31014-001A | ← | ← | ← |
| CLUTCH UNIT | 93 | LP40934-001B | ← | ← | ← |
| SLIT WASHER | 94 | PQM30017-47 | ← | ← | ← |
| DIRECT GEAR | 95 | LP30973-001A | ← | ← | ← |
| COMPRESS. SPRING | 96 | LP40939-001A | ← | ← | ← |
| CHANGE LEVER | 102 | LP30974-001B | ← | ← | ← |
| REEL DISK,X2 | 105 | LP21049-001A | ← | ← | ← |
| SPACER,X2 | 107 | LP30017-004A | ← | ← | ← |
| SIDE FRAME(L) | 110 | LP10401-001F | LP10401-001H | LP10401-001F | LP10401-001H |
| SIDE FRAME(R) | 111 | LP10402-001F | LP10402-001K | LP10402-001G | LP10402-001K |
| SCREW,X2 | 112 | QYTDST2606Z | ← | ← | ← |
| TORSION SPRING | 113 | LP40917-001C | LP40917-001D | ← | ← |
| SIDE PLATE | 114 | LP30976-001D | LP30976-001E | ← | ← |
| LIMIT PLATE | 115 | LP30977-002D | ← | ← | ← |
| LIMIT SPRING | 116 | LP40846-001C | ← | ← | ← |
| DRIVE LEVER | 117 | LP31100-001B | ← | ← | ← |
| DRIVE ARM(L) | 118 | LP30978-001B | ← | ← | ← |
| DRIVE ARM(R) | 119 | LP30979-001H | LP30979-001N | LP30979-001H | LP30979-001N |
| TORSION SPRING | 120 | LP40847-001B | ← | ← | ← |
| CONNECT PLATE | 121 | LP30980-001A | LP30980-001E | LP30980-001B | LP30980-001E |
| SIDE HOLDER(L) | 122 | LP10403-001C | ← | ← | ← |
| SIDE HOLDER(R) | 123 | LP10404-001D | LP10404-001E | ← | ← |
| LOCK LEVER(L) | 124 | LP30983-001A | LP30983-001B | LP30983-001A | LP30983-001B |
| LOCK LEVER(R) | 125 | LP30984-001A | LP30984-001B | LP30984-001A | LP30984-001B |
| TENSION SPRING,X2 | 126 | LP40924-001C | LP40924-001D | ← | ← |
| EARTH SPRING(1) | 127 | LP40856-001A | ← | LP40856-001B | LP40972-001A |
| EARTH SPRING(2) | 128 | LP40857-001B | ← | ← | ← |
| C.HOLDER ASSY | 130 | LP30981-001E | LP30981-001G | LP30981-001F | LP30981-001G |
| C.H STOPPER | 131 | LP31135-001A | - | LP31135-001A | - |

| System | | VHS | | S-VHS | |
|---|---|---|---|---|---|
| **Job No. | | V15D Series | V16D Series | V15S Series | V16S Series |
| Part Name | Symbol No. | Part No. | Part No. | Part No. | Part No. |
| R.SAFETY LEVER | 134 | LP21051-002C | ← | ← | ← |
| TOP FRAME | 137 | LP21052-001F | LP21052-001J | LP21052-001H | LP21052-001J |
| SPACER | 138 | LP30002-0A7A | - | LP30002-0A7A | - |
| DOOR OPENER | 151 | LP30985-001G | ← | ← | ← |
| TAPE GUIDE | 161 | - | LP40993-001A | - | LP40993-001A |
| E-CARD WIRE DRUM.M | WR1 | WJT0059-001C | WJT0059-001E | WJT0059-001D | WJT0059-001E |
| E-CARD WIRE AC HEAD CN2001 | WR2 | WJT0067-001B | ← | ← | ← |
| E-FL/RB WIRE LOADING MOTOR | WR3 | WJS0022-001A | ← | ← | ← |
| MEMO | - | PMD0035B-C | PMD0040A-C | PMD0036B-C /PMD0039A-C | PMD0037A-C /PMD0041A-C |

**NOTE:**

MARK ← is same as left.
MARK - is not used.
MARK * shows that Symbol No. and Parts No. may sometimes be different from those in each manual. See the table below for final Symbol No. and Parts No.
MARK ** is Job No.
To identify a model, see the Job No. of the model.
Job No. is shown just above the service manual number at the lower right of the service manual of each model.